

Updated Mar 31, 2015						
Wizardry IV Return of Wizardry						
Messages found in ASCII.KRN						
1: **						Some messages had ASCII control characters in them. Before entering them here, I removed the control characters:
2: Insert Diskette "A" containing the				14070 to 14073		
3: Save Game you wish to move into				14082 to 14083		
4: Insert Diskette "A" onto which				14094 to 14097		
5: the Save Game is to be moved into				14106 to 14109		
6: Disk Drive 1, then Press ~				14118 to 14119		
7: Move which Save Game (1-8, ~ exits)				14132 to 14133		
8: Move to what Save Game (1-8, ~ exits)				14160 to 14161		
9: Insert your original Diskette "A" into				14170 to 14171		
10: That is not a Diskette "A" - Press ~				17703		
12: ^ - Press ~				18656		
13: Place SCENARIO Diskette "A"				19552		
14: in drive 1, then Press ~				19750		
20: ~ For More Wizardry				19802		
21: Your Position:				19902		
22: Facing ^				19952		
23: North.						
24: East.						28000 to 28060 are integer values disguised as messages.
25: South.						See TICKETS and copy protection descriptions.
26: West.						
27: ! East " North # Down.						Other messages from 30000+
31: Y						
32: N						The tilde character (~) is displayed as a special "Enter" character similar to a left arrow.
60: Now loading program segments into						
61: extra memory. This improves the						
62: performance of the program.						Sometimes a caret is at the beginning of a line. Possibly a concatenation character.
63:						Many messages use the caret (^) as a placeholder to insert additional text.
64: You may be asked to insert other						Pound symbol (#), ampersand (&) and percent (%) are similar.
65: Diskettes as the load progresses.						Some messages use the "at" symbol (@) to indicate additional processing.
90: As mighty Achilles fell to Paris'						Some messages use the dollar sign (\$) to indicate the response to a riddle.
91: arrow, so does Lord Hawkwind fall to						
92: the stab of a lowly Dink! Long will						
93: Skara Brae be mourning his passing!						
100: (Y/N) ?						
101: Press ~						
102: ^ Got An Item.						
103: Will You Wade						
104: YN						
105: ^ traded an Item!						
106: Not Without Payment!						
107: Will You Search						
108: What Is Your Answer ?						
109: Wrong!						
110: Correct!						
111: You need more Gold						
112: Thank You!						
113: The Fee is						
114: Will You Pay						
115: Y						
116: N						
120: The Pentagram Glows...						
121: ...and the Gate Opens!						
122: Now you may S)ummon your Monsters!						

123: Select Monster Groups by letter (A-L)					
124: or Move to N~ext Page or P)rev Page					
125: NPS					
126: Call Forth 3 Groups of Monsters!					
127: Call Forth 2 more Groups!					
128: Call Forth 1 more Group!					
129: Summon your Monsters!					
170: Here at the top of the Ziggurat is a					
171: decrepit Temple, crumbling with age					
172: and neglect. Inside the Temple is					
173: a plain altar. Carved into the top					
174: of the altar are three depressions.					
177: As you place the stone, a bolt of					
178: lightning descends and destroys it!					
179: Hmm...the stone somehow gave offense					
180: All of the depressions are empty.					
181: One of the depressions contains					
182: an Item that you have offered.					
183: Two of the depressions contain					
184: Items that you have offered.					
185: You may make an offering of either					
186: G)old, an I)tem, or you may l~eave					
187: GILYN					
188: How about half your Gold (Y/N) ?					
189: The ^ vanishes before it lands					
190: upon the altar!					
191: Gold					
192: Item					
193: What Item will you offer ?					
194: ~ to not make an offering					
195: The Item nestles in a depression.					
196: It is as if it has become part of					
197: the altar.					
200: You teleported into rock!					
201: You materialized in mid-air above					
202: the mouth of the volcano and fell					
203: to your doom into molten lava!!					
204: You appeared in the Castle moat					
205: and have probably drowned!					
206: You bounced back to where you were!!					
207: Teleport:					
208: East = 0 North = 0 Up = 0					
209: E)AST(W)EST(N)ORTH(S)OUTH(U)P/D)OWN(T)ELEPORT(Q)UIT					
210: Summoning The Guardians!					
211: Laying Out Patrol Areas!					
212: Setting Up The Traps!					
215: As you place the stone, a bolt of					
216: lightning descends and destroys you!					
217: Gods are not as foolish as you are!!					
220: Which Item will you Use ?					
221: ~ to not Use an Item					
222:					
223:					
224:					
225: Welcome To:					
226: The Return Of Werdna!					
227:					

228: You are Werdna, the Evil Wizard.					
229: Years ago you plotted to rule the					
230: world. Alas, while unlocking the					
231: Amulet's secrets, you were rudely					
232: attacked by a party of do-gooder					
233: adventurers! They thought you had					
234: been slain, but found they could					
235: not destroy your body, so it was					
236: entombed deep within the earth.					
237: Fanatical Guardians and devious					
238: Traps surround your hidden Bier as					
239: insurance against your return.					
245: (AC=					
246: , HP=					
247:)					
250: Press ~					
251: Will you Invoke the Special					
252: Power of your ^					
253: (Y/N) ?					
254: Y					
255: N					
256: Equip Which (#) ?					
257: ~ for none					
258: Select ^					
259: Weapon					
260: Armor					
261: Cloak					
262: Helm					
263: Gauntlets					
264: Misc. Item					
265: * CURSED *					
266: Reordering:					
269: Weapon					
270: It smooths away life's wrinkles.					
271: The Ball emits noxious fumes!					
272: The fumes repel the insects!					
273: Well, The Pin Is PULLED...					
274: Zap! The Item Disintegrates!					
275: Ahh!! Fresh air!!					
276: The pin is already PULLED!					
277: You hop high into the air!					
280: Press 1-8 to put					
281: an Item into the					
282: Black Box.					
283: Press A-S to get					
284: an Item from the					
285: Black Box.					
286: Press ~ to close					
287: the Black Box.					
289: The Item Vanishes!					
290: Hee! Hee! Hee!					
291: Haa! Haa! Haa!					
292: Gotcha, Fool!!					
293: Clap! Clap!					
294: G'wan! Geddoudahere!					
295: You hop very high- over the wall!					
296: You feel lighter than air!					

297: It glows ethereally!					
298: Ahhh!! The Curse on Trebor lifts!					
299: The Boots rise up and fly away!					
300: The Temple is no longer the ruin					
301: that it was when you first found					
302: it. Now it is bright and whole.					
303: Power radiates. The modest altar					
304: is resplendent with Gold and					
305: Jewels. You feel the Presence!					
306:					
307: Suspended above the altar are					
308: three Magical Swords. A godlike					
309: voice, coming from everywhere					
310: at once, intones...					
311:					
312: "Take ye one of these Swords as					
313: a reward for restoring unto Me					
314: My sacred Temple!"					
315:					
320: Which Sword will you take ?					
321:					
322: The G)reen Sword, the B)lue					
323: Sword or the A)mber Sword ?					
324:					
330: GBA					
350: The Temple is no longer the ruin					
351: that it was when you first found					
352: it. Now it is bright and whole.					
353: power radiates. The modest altar					
354: is now resplendent with gold and					
355: jewels. You feel the Presence!					
356:					
357: Of the Swords, however, there is					
358: no sign.					
380: *** KABALAAMMMMOOOO ***					
381: and if you've counted, this is 1					
382: 6 is way off					
383: 3 is too small, and 5 too large					
384: 4 is the number, the number is 4					
402: # Character Name Class AC Hits Status					
410: The Chronicles of Hawkwind					
411:					
412: "A really exciting story,					
413: but the ending hasn't been					
414: written yet!"					
415:					
416: Press ~					
420: Slowly you sink into a deep slumber.					
421:					
422: You are sitting beneath a large tree					
423: whose wide canopy shelters you.					
424:					
425: Suddenly, a large White Rabbit wear-					
426: ing a waistcoat comes running by. He					
427: consults a large pocket watch and					
428: exclaims:					
429:					

430: "I'm late! I'm late!							
431: For the Life of me,							
432: where is the Opening?"							
433:							
434: The image fades and Reality (?) is							
435: once again rampant...							
436:							
437: Press ~							
440: The Fickle Finger of Fate spins...							
441: ...and points at YOU!!!							
442:							
443: Press ~							
500: Entering							
501: The Return Of Werdna							
502: p)LAY GAME/L)EAVE GAME/M)OVE SAVE GAMES							
503: Play which Save Game (1-8) ?							
504: ~ for a New Game, (ESC) exits							
505: Save to which Save Game (1-8) ?							
506: ~ to not Save, (ESC) exits							
510: Oh no!!! The nightmares and the							
511: torments begin again! Next time							
512: I'll be clever enough to escape!							
513:							
514: Press ~ to begin anew							
520: At last you awaken from endless							
521: nightmares and torments, mad with							
522: lust for revenge!							
523:							
524: You want your Amulet back!							
530: But first you have to regain the							
531: powers which have been drained							
532: away and escape from this cursed							
533: prison tomb. Press ~ to begin.							
550: "Tickets...Tickets, Please!							
551: Enter the Validation Code of this							
552: Mordorcharge Card to continue:							
553: Validation Code >							
554: The number you have entered is not							
555: correct. Press ~ to try again.							
600: ~ to leave							
601: LO							
602: Poison							
603: Mage							
604: Prst							
605: Strength							
606: Gold							
607: Lev							
608: I.Q.							
609: Keys							
610: Age							
611: Piety							
612: Vitality							
613: H.P.							
614: A.C.							
615: Agility							
616: Luck							
617: Status							

618: (Poison)							
619: You can't cast that							
620: Fizzle!							
621: Cast on whom (#) ?							
622: Oops							
623: Now							
624: Ok							
625: Oops!							
626: Not dead							
627: Lost							
628: Try kadorto							
629: Cast what Spell ?							
630: >							
631: What ?							
632: Done!							
633: Use Item (#) ?							
634: Powerless							
635: Not Equipped							
636: Drop Item (#) ?							
637: Cursed							
638: Equipped							
639: Dropped							
640: Equip Item (#) ?							
649: R)EAD(E)QUIP(D)ROP(S)PELL(U)SE(I)EAVE							
652: Camp							
700: Poison							
701: LO							
702: An Encounter							
703: Stairs Down							
704: Stairs Up							
705: Take Them (Y/N) ?							
706: Y							
707: N							
708: It's Dark							
709: You are in Rock!							
710: There are two buttons							
711: here marked ^ and #.							
712: Press one (~ to leave)							
713: Ouch!							
714: A Chute!							
715: You can't walk through walls!							
716: Delay (0-99) >							
717: C)amp S)tatus T)ime O)ff A-W-D K							
718:							
719: Light							
720: Protect							
721: Identify							
722: WK8AL4DR 6XB2OSTCIQ							
723: A Pit!							
724: Quit This Expedition (Y/N) ?							
725: Y							
726: N							
727: ^ has Died!							
728: You are Flying!							
729: You levitate over the Pit!							
730: You fell down a whole story!							
731: You fell down two stories!							

732: Kablam! Land Mine!						
733: You levitate over the Minefield!						
800: Rummaging around in the pile						
801: of Dead, you find...						
802: Press 1-8 to take an Item						
803: ~ when finished stripping bodies						
804: (You can carry ^ more Items)						
805: You can't carry any more Items						
806: (You can carry only 1 more Item)						
900: Press ~						
901: Spells =						
902: Mage						
903: Priest						
904: M)AGE SPELL BOOKS/P)RIEST SPELL BOOKS/I)EAVE						
905: Mage Spells						
906: Priest Spells						
907: Press ~ to leave						
908: Hunting you down!						
909: In the Castle Morgue.						
910: In the						
911: North-						
912: South-						
913: East						
914: West						
915: of this level.						
916: Locate someone						
917: Find whom ? >						
918: ^ is...						
919: Not on this Scenario Diskette!						
920: Identify what						
921: Item (#) ?						
922: ~ to leave						
923: You Identified It!						
924: You don't have a clue!						
1000: A friendly group of						
1001: F)ight or L)eave						
1002: F						
1003: L						
1005: Poison						
1006: LO						
1007: With his dying breath the Herald						
1008: blows upon his long trumpet!						
1010: ~ to leave						
1011: Use Item on person (#) ?						
1012: Use Item on which enemy (#) ?						
1013: Use which Item (#) ?						
1014: ~ to leave						
1015: Spell Points exhausted						
1016: You don't know that Spell						
1017: Cast Spell on person (#) ?						
1018: Cast Spell on which enemy (#) ?						
1019: Spell Name ? >						
1020: Gotcha this time, you Do-Gooder!						
1021: Ambush! Protect me, my Monsters!						
1022: f)IGHT/						
1023: D)ISPELL/						
1024: S)PELL/						

1025: U)SE ITEM(p)ARRY(R)UN							
1026: UPR							
1027: 'S OPTIONS							
1028: Dispell which enemy (#) ?							
1029: DISPEL							
1030: Fight which enemy (#) ?							
1031: FIGHT							
1032: PARRY							
1033: SPELL							
1034: U-ITEM							
1035: Press ~ to Fight, or							
1036: T)ake back orders							
1037: T							
1038: STEAL							
1039: AC=							
1040: You are about to battle							
1041: *WERDNA*							
1042: You							
1043: You							
1044: ^ are &							
1045: ^ are Killed!							
1046: ^ are Decapitated!							
1047: ^ are not &							
1048: ^ try to cast a ? but cannot speak!							
1049: ^ try to cast a ? but nothing happens!							
1050: ^ cast a ?							
1051: ^ ? % and miss							
1052: ^ ? % and hit once for & damage							
1053: ^ ? % and hit # times for & damage							
1054: ^ take # damage							
1055: ^ are completely healed							
1056: ^ are cured							
1057: ^ are not cured							
1060: You are too weak							
1063: The gods do not hear you!							
1064: Which boon (#) do you desire ?							
1065: Cure party							
1066: Silence enemies							
1067: Augment magic							
1068: Teleport enemies							
1069: Heal party							
1070: Protect party							
1071: Raise the dead!							
1075: No One Expects							
1076: The Spanish Inquisition!							
1080: Cast which Spell ?							
1081: or press ~ to not cast							
1100: ^ is Drained one level!							
1101: ^ is Drained # levels!							
1102: ^ is &							
1103: Poisoned							
1104: Paralyzed							
1105: Stoned							
1106: Decapitated							
1107: ^ ? % and misses							
1108: ^ ? % and hits once for & damage							
1109: ^ ? % and hits # times for & damage							

1110: ^ is Killed!							
1111: ^ is Decapitated!							
1112: ^ calls for help... but no help comes							
1113: ^ calls for help... one Monster appears							
1114: ^ runs away							
1115: ^ attempts to DISPELL and fails							
1116: ^ dispells one Monster							
1117: ^ dispells # Monsters							
1118: ^ resists the Spell							
1119: ^ is Killed!							
1120: ^ takes # damage							
1121: ^ is &							
1122: ^ is not &							
1123: # Hit Points are restored to ^							
1124: ^ is completely Healed							
1125: Held							
1126: Silenced							
1127: The Spell does not work							
1128: SLAIN							
1129: SLEPT							
1130: Nothing Happens							
1131: ^ is cured							
1132: ^ is not cured							
1133: ^ tries to cast a ? but cannot speak!							
1134: ^ tries to cast a ? but nothing happens!							
1135: ^ breathes on the party!							
1136: ^ casts a ?							
1137: which is neutralized!							
1138: ^ Steals an Item and runs away!							
1139: ^ attempts to Steal an Item but fails							
1140: # Hit Point is restored to ^							
1150: bites at							
1151: claws at							
1152: tries to gnaw							
1153: attempts to chew							
1154: tries to nibble on							
1155: tries to stab							
1156: thrusts violently at							
1157: charges at							
1158: attempts to slice							
1159: leaps at							
1160: attack							
1290: ^							
1291: ^							
1292: ^							
1293: ^							
1294: ^							
1295: ^							
1300: # ^							
1301: # ^							
1302: # ^							
1303: # ^							
1304: # ^							
1305: # ^							
1310: ^							
1311: ^							
1312: ^							

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1500: an ^								
1501: a ^								
1502: an ^								

1503: a ^								
1504: an ^								
1505: a ^								
1510: an ^								
1511: a ^								
1512: an ^								
1513: a ^								
1514: an ^								
1515: a ^								
1700: Wizardry is (c)1979-1987 by								
1701: Andrew Greenberg, Inc., and								
1702: Robert Woodhead, Inc.								
1703:								
1704: NEC 9801 Pascal is (c)1985 by								
1705: the Foretune co., ltd.								
1706:								
1707: NOTE: if you give characters kanji								
1708: names, they will look like tofu on								
1709: machines without the kanji rom.								
1890: You fall into water and drown!								
1900: Congratulations on completing one of								
1901: the endings of The Return Of Werdna!								
1902:								
1903: We would like to find out how well								
1904: you did! On the following page will								
1905: be displayed a set of code numbers								
1906: that measure your performance in the								
1907: game. Please call Sir-Tech at the								
1908: phone number listed in the document-								
1909: ^ation to report these numbers.								
1910:								
1911: If you do, Sir-Tech will send you a								
1912: completion certificate, and you will								
1913: be able to obtains some very special								
1914: ^mementos of your Victory!								
1950: Your three code numbers are:								
1951: Press ~ when you have recorded them								
2000: Make Scenario Diskette:								
2001: Do you have 1) or 2) Disk Drives ?								
2002: (Press (ESC) to exit)								
2003: 12								
2004: Insert Master Diskette into Drive ^,								
2005: Insert blank Diskette into Drive ^,								
2006: Reading Master Diskette...								
2007: Writing to blank Diskette...								
2008: Formatting blank Diskette...								
2009: Read Error!								
2010: Write Error!								
2011: "Make" has failed - press ~								
2012: Scenario Diskette made - press ~								
2013: The Diskette you inserted has Data								
2014: on it. If you use it, the Data								
2015: will be erased! Use it (Y/N) ?								
2016: YN								
2017: then press ~								
2019: You cannot play without making a								
2020: Scenario Diskette!								

2021: S)tart Game							
2022: M)ake Scenario Diskette							
2023: Starting Game:							
2024: Select Language:							
2025: 1) English							
2026: 2) Kana							
2027: 3) Kanji							
2028: That is not a Master Diskette-Press ~							
2029: That is not a Blank Diskette-Press ~							
2030: Format error!							
2031: # of ^ cycles completed							
2032: Insert Scenario Diskette "A"- Press ~							
2040: The Return of WERDNA							
2041: The Fourth Wizardry Scenario							
2042:							
2043: Andrew Greenberg,							
2044: Robert Woodhead &							
2045: Roe R. Adams,III.							
2050: Making a Scenario Diskette							
2051:							
2052: Before you play the game, you MUST							
2053: make copies of each of your Master							
2054: Diskettes. You can use this util-							
2055: ity or any standard copy program.							
2056:							
2057: Make a copy of Master Diskette "A"							
2058: first, then "B", etc.							
2059:							
2060: At the end of each copy process,							
2061: you will be asked to insert YOUR							
2062: Scenario Diskette "A", then be re-							
2063: turned to the title page. Choose							
2064: M)ake Scenario again to copy the							
2065: next diskette. Press ~ to begin.							
2100: Are you really seeking what is below							
2101: life itself? Beware, your choice is							
2102: IRREVOCABLE. (A REAL SERIOUS hint!)							
2103: --Make a Backup Save Game Diskette							
2104: ^BEFORE attempting this!!!							
2105: @Do you really want to complete your							
2106: Incantation (Y/N) ?							
2110: YN							
2120: You have found the Total Oblivion							
2121: you have for so long been search-							
2122: ing. All traces of your existence							
2123: have been obliterated!							
2124:							
2125: Press ~ to Rest Forever!							
2500: "W...E...R...D...N...A..."							
2501: "WHERE...ARE...YOU...???"							
2502: "I...COME...FOR...YOU..."							
2503: "MY...REVENGE...IS...AT...HAND..."							
2504: "I...ALMOST...HAVE...YOU..."							
2505: "NOW...YOU...ARE...MINE..."							
2506: The Ghost of Trebor appears							
2507: through the wall. His touch							
2508: is chilling unto Death!							

2509: You fell off the Ziggurat!						
2510: There is a massive explosion,						
2511: compared to which a TILTOWAIT						
2512: is a mere HALITO spell!						
2550: You have found the Bloodstone						
2600: You have found the Turq.						
2650: You have found the Amber Dragon						
5000: NO SPELL						
5001: *HALITO						
5002: MOGREF						
5003: KATINO						
5004: DUMAPIC						
5005: *DILTO						
5006: SOPIC						
5007: *MAHALITO						
5008: MOLITO						
5009: *MORLIS						
5010: DALTO						
5011: LAHALITO						
5012: *MAMORLIS						
5013: MAKANITO						
5014: MADALTO						
5015: *LAKANITO						
5016: ZILWAN						
5017: MASOPIC						
5018: HAMAN						
5019: *MALOR						
5020: MAHAMAN						
5021: TILTOWAIT						
5022: *KALKI						
5023: DIOS						
5024: BADIOS						
5025: MILWA						
5026: PORFIC						
5027: *MATU						
5028: CALFO						
5029: MANIFO						
5030: MONTINO						
5031: *LOMILWA						
5032: DIALKO						
5033: LATUMAPIC						
5034: BAMATU						
5035: *DIAL						
5036: BADIAL						
5037: LATUMOFIS						
5038: MAPORFIC						
5039: *DIALMA						
5040: BADIALMA						
5041: LITOKAN						
5042: KANDI						
5043: DI						
5044: BADI						
5045: *LORTO						
5046: MADI						
5047: MABADI						
5048: LOKTOFEIT						
5049: *MALIKTO						

5050: KADORTO						
9999:						
10000: Human						
10001: Elf						
10002: Dwarf						
10003: Gnome						
10004: Hobbit						
10010: Good						
10011: Neutral						
10012: Evil						
10020: Strength						
10021: I.Q.						
10022: Piety						
10023: Vitality						
10024: Agility						
10025: Luck						
10030: Fighter						
10031: Mage						
10032: Priest						
10033: Thief						
10034: Bishop						
10035: Samurai						
10036: Lord						
10037: Ninja						
10040: OK						
10041: Afraid						
10042: Asleep						
10043: Paralyzed						
10044: Petrified						
10045: Dead						
10046: Ashes						
10047: Lost						
12000: You have trapped						
12001: the Wandering Oracle Of Mron!						
12002:						
12003: "Al'right, it's a fair cop....						
12004:						
12005: Oh.... you just want advice?						
12006: That's quite different, Mate!						
12007:						
12008: Did you bring a Griffin? No, huh,						
12009: well, I do my best Augury with						
12010: the entrails of Griffins! Hmm..."						
12011: @"This will be quite difficult,						
12012: but for only 2,500 Gold Pieces,						
12013: perhaps I can go into a trance						
12014: ^and commune with the gods."						
12015: No Guarantees, and No Refunds!						
12050: Pay A) Cash, B) Charge, C) Leave						
12099: ABC						
12100: "Be Seeing You!"						
12101:						
12102: The Oracle vanishes into thin air!						
12150: "It is not a wise idea to short-						
12151: ^change an Oracle, Buddy!"						
12200: "You don't have a Charge Card"						
12250: "Hey, this Card is on the Hotlist!"						

12251: ^Why, it's Captain Thorin's Card!"					
12252: @In a flash of light, Karl Maudlin					
12253: steps from a cable car intoning...					
12254: "What will you do? What will you					
12255: do? I'll tell you what you will					
12256: ^do! You won't leave home!"					
12298: "I'm sorry, but the number you have					
12299: dialed is no longer in service"					
12300: THE EGRESS WILL SET YOU FREE!					
12301:					
12302: YOUR FUTURE IS BLACK;					
12303: YOU FEEL BOXED IN!					
12304: READ THE ILIAD LATELY?					
12305:					
12306: "CHOMP, CHOMP...EH, WHAT'S EAST, DOC?"					
12307:					
12308: SECRETS ABOUND ALL AROUND YOU!					
12309: PSST! HAVE YOU MET GLUM YET?					
12310: LIVE THE QABALAH!					
12311:					
12312: THE ANSWER IS CARVED IN STONE.					
12313: IT IS RIGHT BEFORE YOUR NOSE!					
12314: THE TEMPLE HOLDS AN ANCIENT SECRET.					
12315:					
12316: HOP HIGH TO ENTER.					
12317:					
12318: RABBITS ARE SACRED TO THE					
12319: THE DREAMPAINTER.					
12320: SEEK THE DREAMPAINTER'S SOUL.					
12321:					
12322: EVERYONE HAS A WEAKNESS!					
12323: WHAT IS HIS???					
12324: TAKE A STEP TO THE LEFT,					
12325: AND A HOP TO THE RIGHT!					
12326: GONE TROLLING!					
12327:					
12328: BEWARE THE GIFTS OF LORD MAYA!					
12329:					
12330: GET A HANDLE ON THE FORBIDDEN FRUIT!					
12331:					
12332: ROCKS, MULTILAYERED ROCKS					
12333:					
12334: HOMER WILL SHOW YOU THE WAY.					
12335:					
12336: YOU TOO CAN BE SAVED! REPENT YE					
12337: SINNER! WASH AWAY THY SINS! REPENT!					
12338: DOWN INTO THE BOWELS OF THE EARTH.					
12339:					
12340: PASSWORD IS YOUR ANCIENT BATTLECRY.					
12341:					
12342: TO SOAR THE HEIGHTS, YOU MUST					
12343: FIRST PLUNGE THE FIERY DEPTHS.					
12344: CAREER OPPORTUNITY...EXPERIENCED					
12345: MUEZZIN NEEDED...GREAT FRINGES!					
12346: CLOUDY TONIGHT,					
12347: CHANCE OF RAIN TOMORROW.					
12348: CURSED WITH TOO MANY BLESSINGS?					

12349: FIND RELIEF IN A BOTTLE!					
12350: YOUR FUTURE IS GREY AND HAZY!					
12351:					
12352: IT'S ALL GREEK TO YOU!					
12353: (WELL, MAYBE A LITTLE LATIN)					
12354: A TISKET, A TASKET,					
12355: TREBOR'S RUMP IS IN A BASKET!!!					
12356: FIND THE PATHS OF THE TRUE WAY!					
12357:					
12358: "SNIFF! SNIFF! WHEW, WHAT A STENCH!"					
12359:					
12360: LOOK TO THE LYCH-GATE!					
12361:					
12362: SEEK AMONGST THE HISTORICAL WRITINGS					
12363: OF TREBOR'S FOES FOR THE PASSWORD.					
12364: OUT TO LUNCH,					
12365: CATCH US NEXT TIME!					
12366: THE MINUET IN THE MINARET					
12367: GOES HAND IN GLOVE!					
12368: LOOK AMIDST "THE ROOTS OF THE WORLD"					
12369:					
12370: "YOU HAVE FORGOTTEN SOMETHING!"					
12371:					
12372: "NO, NO, IT'S TOO HORRIBLE TO VIEW!					
12373: YOU POOR WIZARD, YET MORE SUFFERING.					
12374: EVER CONSIDER A DIFFERENT LINE					
12375: OF WORK?					
12376: THERE IS HOPE IN YOUR FUTURE!!!					
12377: NOPE, IT FLICKERED OUT ALREADY.					
12378: THE CENOTAPH HIDES THE SECRET WAY.					
12379:					
12380: FOR TRAVELING THROUGH NOTHING,					
12381: SEEK THE NYIN.					
12382: HAVE YOU FORGOTTEN SOMETHING?					
12383:					
13000: Little Old Man					
13001: Little Old Men					
13002: Dink					
13003: A Dink					
13004: Fluffy Thing					
13005: Fluffy Things					
13006: Fuzzball					
13007: Fuzzballs					
13008: Small Object					
13009: Small Objects					
13010: Creeping Coin					
13011: Creeping Coins					
13012: Slime					
13013: Slimes					
13014: Bubbly Slime					
13015: Bubbly Slimes					
13016: Small Humanoid					
13017: Small Humanoids					
13018: Orc					
13019: Orcs					
13020: Man In Robes					
13021: Men In Robes					

13022: Lvl 1 Mage						
13023: Lvl 1 Mages						
13024: Gas Cloud						
13025: Gas Clouds						
13026: Gas Cloud						
13027: Gas Clouds						
13028: Skeleton						
13029: Skeletons						
13030: Skeleton						
13031: Skeletons						
13032: Corsair						
13033: Corsairs						
13034: Garian Raider						
13035: Garian Raiders						
13036: Priest						
13037: Priests						
13038: Lvl 1 Priest						
13039: Lvl 1 Priests						
13040: Weird Humanoid						
13041: Weird Humanoids						
13042: Zombie						
13043: Zombies						
13044: Small Humanoid						
13045: Small Humanoids						
13046: Kobold						
13047: Kobolds						
13048: Slime						
13049: Slimes						
13050: Creeping Crud						
13051: Creeping Cruds						
13052: Strange Plant						
13053: Strange Plants						
13054: Crawling Kelp						
13055: Crawling Kelps						
13056: Gaunt Figure						
13057: Gaunt Figures						
13058: Mummy						
13059: Mummies						
13060: Woman In Robes						
13061: Women In Robes						
13062: Witch						
13063: Witches						
13064: Unseen Entity						
13065: Unseen Entities						
13066: Poltergeist						
13067: Poltergeists						
13068: Insect						
13069: Swarm						
13070: No-See-Um						
13071: No-See-Um Swarm						
13072: Scruffy Man						
13073: Scruffy Men						
13074: Rogue						
13075: Rogues						
13076: Shadowy Figure						
13077: Shadowy Figures						
13078: Asher						

13079: Ashers								
13080: Large Snake								
13081: Large Snakes								
13082: Anaconda								
13083: Anacondas								
13084: Shadowy Figure								
13085: Shadowy Figures								
13086: Duster								
13087: Dusters								
13088: Insect								
13089: Insects								
13090: Huge Spider								
13091: Huge Spiders								
13092: Priest								
13093: Priests								
13094: Lvl 3 Priest								
13095: Lvl 3 Priests								
13096: Weird Humanoid								
13097: Weird Humanoids								
13098: Rotting Corpse								
13099: Rotting Corpses								
13100: Fly								
13101: Flies								
13102: Dragon Fly								
13103: Dragon Flies								
13104: Unseen Entity								
13105: Unseen Entity								
13106: Spirit								
13107: Spirits								
13108: Strange Bird								
13109: Strange Birds								
13110: Harpy								
13111: Harpies								
13112: Bugbear								
13113: Bugbears								
13114: Bugbear								
13115: Bugbears								
13116: Wererat								
13117: Wererats								
13118: Wererat								
13119: Wererats								
13120: Man In Armor								
13121: Men In Armor								
13122: Ronin								
13123: Ronins								
13124: Strange Animal								
13125: Strange Animals								
13126: Gaze Hound								
13127: Gaze Hounds								
13128: Unseen Entity								
13129: Unseen Entities								
13130: Banshee								
13131: Banshees								
13132: Unseen Entity								
13133: Unseen Entity								
13134: Shade								
13135: Shades								

13136: Priest								
13137: Priests								
13138: Lvl 5 Priest								
13139: Lvl 5 Priests								
13140: Man In Leather								
13141: Men In Leather								
13142: Looter								
13143: Looters								
13144: Animal								
13145: Animals								
13146: Blink Dog								
13147: Blink Dogs								
13148: Scruffy Man								
13149: Scruffy Men								
13150: Bushwacker								
13151: Bushwackers								
13152: Giant Serpent								
13153: Giant Serpents								
13154: Moat Monster								
13155: Moat Monsters								
13156: Strange Plant								
13157: Strange Plants								
13158: Strangler Vine								
13159: Strangler Vines								
13160: Amphibian								
13161: Amphibians								
13162: Giant Toad								
13163: Giant Toads								
13164: Rabbit								
13165: Rabbits								
13166: Vorpal Bunny								
13167: Vorpal Bunnies								
13168: Slimy Thing								
13169: Slimy Things								
13170: Giant Slug								
13171: Giant Slugs								
13172: Goblin								
13173: Goblins								
13174: Goblin Shaman								
13175: Goblin Shamans								
13176: Goblin								
13177: Goblins								
13178: Goblin								
13179: Goblins								
13180: Strange Bird								
13181: Strange Birds								
13182: Cockatrice								
13183: Cockatrices								
13184: Ogre								
13185: Ogres								
13186: Ogre								
13187: Ogres								
13188: Priest								
13189: Priest								
13190: Priestess								
13191: Priestesses								
13192: Kimonoed Man								

13193: Kimonoed Men						
13194: Lvl 3 Samurai						
13195: Lvl 3 Samurai						
13196: Unseen Entity						
13197: Unseen Entities						
13198: Grave Mist						
13199: Grave Mists						
13200: Corsair						
13201: Corsairs						
13202: High Corsair						
13203: High Corsairs						
13204: Man In Armor						
13205: Man In Armor						
13206: Minor Daimyo						
13207: Minor Daimyos						
13208: Unseen Entity						
13209: Unseen Entities						
13210: Lifestealer						
13211: Lifestealers						
13212: Gaunt Figure						
13213: Gaunt Figures						
13214: Nightstalker						
13215: Nightstalkers						
13216: Unseen Entity						
13217: Unseen Entities						
13218: Wight						
13219: Wights						
13220: Man In Black						
13221: Men In Black						
13222: Master Ninja						
13223: Master Ninjas						
13224: Priest						
13225: Priests						
13226: Bishop						
13227: Bishops						
13228: Wolf						
13229: Wolves						
13230: Werewolf						
13231: Werewolves						
13232: Goblin						
13233: Goblins						
13234: Hobgoblin						
13235: Hobgoblins						
13236: Strange Animal						
13237: Strange Animals						
13238: Centaur						
13239: Centaurs						
13240: Gargoyle						
13241: Gargoyles						
13242: Gargoyle						
13243: Gargoyles						
13244: Unseen Entity						
13245: Unseen Entities						
13246: Ghast						
13247: Ghasts						
13248: Dragon						
13249: Dragons						

13250: Komodo Dragon						
13251: Komodo Dragons						
13252: Animal						
13253: Animals						
13254: Hellhound						
13255: Hellhounds						
13256: Robed Man						
13257: Robed Men						
13258: Priest Of Fung						
13259: Priests Of Fung						
13260: Monk						
13261: Monks						
13262: Master/Dragons						
13263: Masters/Dragons						
13264: Shadowy Figure						
13265: Shadowy Figures						
13266: Seraph						
13267: Seraphim						
13268: Strange Animal						
13269: Strange Animals						
13270: Weretiger						
13271: Weretigers						
13272: Insect						
13273: Insects						
13274: Boring Beetle						
13275: Boring Beetles						
13276: Animal						
13277: Animals						
13278: Displacer Beast						
13279: D'placer Beasts						
13280: Cave Dweller						
13281: Cave Dwellers						
13282: Corrosive Slime						
13283: Corr. Slimes						
13284: Dragon						
13285: Dragons						
13286: Gas Dragon						
13287: Gas Dragons						
13288: Skull						
13289: Skulls						
13290: Scryll						
13291: Scrylls						
13292: Mottled Figure						
13293: Mottled Figures						
13294: Carrier						
13295: Carriers						
13296: Man In Armor						
13297: Men In Armor						
13298: Myrmidon						
13299: Myrmidons						
13300: Strange Animal						
13301: Strange Animals						
13302: Gorgon						
13303: Gorgons						
13304: Man In Black						
13305: Men In Black						
13306: Lvl 6 Ninja						

13307: Lvl 6 Ninjas						
13308: Shadowy Figure						
13309: Shadowy Figures						
13310: Dark Rider						
13311: Dark Riders						
13312: Shadowy Figure						
13313: Shadowy Figures						
13314: Doppelganger						
13315: Doppelgangers						
13316: Giant Insect						
13317: Giant Insects						
13318: Giant Mantis						
13319: Giant Mantises						
13320: Glowing Sphere						
13321: Glowing Spheres						
13322: Evil Eye						
13323: Evil Eyes						
13324: Goblin						
13325: Goblins						
13326: Goblin Prince						
13327: Goblin Princes						
13328: Monk						
13329: Monks						
13330: Master/W. Wind						
13331: Masters/W. Wind						
13332: Strange Animal						
13333: Strange Animals						
13334: Wyvern						
13335: Wyverns						
13336: Dragon						
13337: Dragon						
13338: Brass Dragon						
13339: Brass Dragons						
13340: Shadowy Figure						
13341: Shadowy Figures						
13342: Fiend						
13343: Fiends						
13344: Unseen Entity						
13345: Unseen Entities						
13346: Will O' Wisp						
13347: Will O' Wisps						
13348: Man In Armor						
13349: Men In Armor						
13350: Berserker						
13351: Berserkers						
13352: Strange Animal						
13353: Strange Animals						
13354: Chimera						
13355: Chimeras						
13356: Slimy Thing						
13357: Slimy Things						
13358: Xeno						
13359: Xenos						
13360: Strange Animal						
13361: Strange Animals						
13362: Bleebe						
13363: Bleebs						

13364: Strange Bird						
13365: Strange Bird						
13366: Roc						
13367: Rocs						
13368: Man In Armor						
13369: Men In Armor						
13370: Major Daimyo						
13371: Major Daimyos						
13372: Strange Animal						
13373: Strange Animals						
13374: Troll						
13375: Trolls						
13376: Man In Armor						
13377: Men In Armor						
13378: Champ Samurai						
13379: Champ Samurai						
13380: Unseen Entity						
13381: Unseen Entity						
13382: Vampire						
13383: Vampires						
13384: Unseen Entity						
13385: Unseen Entities						
13386: Murphy's Ghost						
13387: Murphy's Ghosts						
13388: Strange Animal						
13389: Strange Animals						
13390: Manticore						
13391: Manticores						
13392: Unseen Entity						
13393: Unseen Beings						
13394: Lich						
13395: Liches						
13396: Giant						
13397: Giants						
13398: Frost Giant						
13399: Frost Giants						
13400: Giant						
13401: Giant						
13402: Fire Giant						
13403: Fire Giants						
13404: Man In Robes						
13405: Men In Robes						
13406: Hatamoto						
13407: Hatamotos						
13408: Monk						
13409: Monks						
13410: Master/Summer						
13411: Masters/Summer						
13412: Large Snake						
13413: Large Snakes						
13414: Hydra						
13415: Hydrae						
13416: Demonic Figure						
13417: Demonic Figure						
13418: Succubus						
13419: Succubi						
13420: Dragon						

13421: Dragons							
13422: Firedrake							
13423: Firedrakes							
13424: Dragon							
13425: Dragons							
13426: Dragon Zombie							
13427: Dragon Zombies							
13428: Giant							
13429: Giants							
13430: Cyclops							
13431: Cyclopes							
13432: Demonic Figure							
13433: Demonic Figures							
13434: Greater Demon							
13435: Greater Demons							
13436: Giant							
13437: Giants							
13438: Poison Giant							
13439: Poison Giants							
13440: Dragon							
13441: Dragons							
13442: Gold Dragon							
13443: Gold Dragons							
13444: Unseen Being							
13445: Unseen Beings							
13446: Maelific							
13447: Maelifics							
13448: Unseen Entity							
13449: Unseen Entitys							
13450: Vampire Lord							
13451: Vampire Lords							
13452: Man In Black							
13453: Men In Black							
13454: High Master							
13455: High Masters							
13456: Demon							
13457: Demons							
13458: Lycurgus							
13459: Lycurgi							
13460: Dragon							
13461: Dragons							
13462: Black Dragon							
13463: Black Dragons							
13464: Cave Dweller							
13465: Cave Dwellers							
13466: Foaming Mold							
13467: Foaming Molds							
13468: Golem							
13469: Golems							
13470: Iron Golem							
13471: Iron Golems							
13472: Strange Animal							
13473: Strange Animals							
13474: Flack							
13475: Fleck							
13476: Demon							
13477: Demons							

13478: Entelechy Fuff						
13479: A Demon Lord						
14002: A STONE						
14003: BLOODSTONE						
14004: A STONE						
14005: LANDER'S TURQ.						
14006: A STONE						
14007: AMBER DRAGON						
14008: A JEWELLED FRUIT						
14009: HHG AUNTY OCK						
14010: MOLTING LEATHER						
14011: WINGED BOOTS						
14012: A FEATHER						
14013: DREAMPAINTER KA						
14014: A GREEN SWORD						
14015: EAST WIND SWORD						
14016: A BLUE SWORD						
14017: WEST WIND SWORD						
14018: A GOLDEN SWORD						
14019: DRAGON'S CLAW						
14020: THE ORANGE ROD						
14021: HOPALONG CARROT						
14022: OIL OF OLE'						
14023: CLEANSING OIL						
14024: A FORKED STICK						
14025: WITCHING ROD						
14026: A WHITE SPHERE						
14027: AROMATIC BALL						
14028: THE NYIN						
14029: VOID TRANSDUCER						
14030: CLEAR LIGHT						
14031: KRIS						
14032: A KEY ON CHAIN						
14033: INN KEY						
14034: GLASS SCULPTURE						
14035: CRYSTAL ROSE						
14036: A DARK GLOB						
14037: DAB						
14038: A SILK CLOTH						
14039: PENNONCEAUX						
14040: HAT WITH VISOR						
14041: MAINTENANCE CAP						
14042: SWORD						
14043: LONG SWORD						
14044: SWORD						
14045: SHORT SWORD						
14046: KNOBBED STICK						
14047: ANOINTED MACE						
14048: STICK W/CHAIN						
14049: ANOINTED FLAIL						
14050: STICK						
14051: STAFF						
14052: DAGGER						
14053: DAGGER						
14054: SHIELD						
14055: SMALL SHIELD						
14056: SHIELD						

14057: LARGE SHIELD						
14058: CLOTHING						
14059: ROBES						
14060: ARMOR						
14061: LEATHER ARMOR						
14062: ARMOR						
14063: CHAIN MAIL						
14064: ARMOR						
14065: BREAST PLATE						
14066: ARMOR						
14067: PLATE MAIL						
14068: HELM						
14069: HELM						
14070:						
14071:						
14072:						
14073:						
14074: SWORD						
14075: LONG SWORD+1						
14076: SWORD						
14077: SHORT SWORD+1						
14078: KNOBBED STICK						
14079: MACE+1						
14080: STAFF						
14081: STAFF						
14082:						
14083:						
14084: ARMOR						
14085: LEATHER+1						
14086: ARMOR						
14087: CHAIN MAIL+1						
14088: ARMOR						
14089: PLATE MAIL+1						
14090: SHIELD						
14091: SHIELD+1						
14092: HOLY RELIQUARY						
14093: ST. K.A.'S FOOT						
14094:						
14095:						
14096:						
14097:						
14098: STICK						
14099: STAFF+2						
14100: SWORD						
14101: DRAGON SLAYER						
14102: HELM						
14103: HELM+1						
14104: AMULET						
14105: JEWELLED AMULET						
14106:						
14107:						
14108:						
14109:						
14110: SWORD						
14111: LONG SWORD+2						
14112: A CAPE						
14113: GOOD HOPE CAPE						

14114: A FURRED CONE						
14115: MAGICIAN'S HAT						
14116: BEANIE						
14117: NOVICE'S CAP						
14118:						
14119:						
14120: GLOVES						
14121: COPPER GLOVES						
14122: CONICAL HAT						
14123: INITIATE TURBAN						
14124: 3-SIDED CLOTH						
14125: WIZARD SKULLCAP						
14126: ARMOR						
14127: PLATE MAIL+2						
14128: SHIELD						
14129: SHIELD+2						
14130: A CHARGE CARD						
14131: MORDORCHARGE						
14132:						
14133:						
14134: RING						
14135: RING						
14136: SWORD						
14137: WERE SLAYER						
14138: SWORD						
14139: MAGE MASHER						
14140: KNOBBED STICK						
14141: MACE						
14142: STAFF						
14143: STAFF						
14144: SWORD						
14145: BLADE CUSINART'						
14146: AMULET						
14147: AMULET						
14148: ROD						
14149: ROD						
14150: CAPE						
14151: CAPE						
14152: **USE ME** CAPE						
14153: CAPE						
14154: CAPE						
14155: CAPE						
14156: AMULET						
14157: AMULET						
14158: DIADEM						
14159: DIADEM						
14160:						
14161:						
14162: DAGGER						
14163: DAGGER+2						
14164: DAGGER						
14165: DAGGER						
14166: ROBE						
14167: LICH'S ROBES						
14168: WHITE CAP						
14169: SKULL'S CAP						
14170:						

14171:								
14172:	GAUNTLETS							
14173:	SILVER GLOVES							
14174:	A YELLOW CARD							
14175:	GETOUT							
14176:	A STONE							
14177:	GOLDEN PYRITE							
14178:	BREATH OF LIFE							
14179:	OXYGEN MASK							
14180:	IRON BOUND BOOK							
14181:	CHRONICLES OF H							
14182:	ARMOR							
14183:	LORD'S GARB							
14184:	WEAPON							
14185:	MURAMASA BLADE							
14186:	WEAPON							
14187:	SHURIKEN							
14188:	ARMOR							
14189:	CHAIN							
14194:	RING							
14195:	RING							
14196:	RING							
14197:	RING							
14198:	RING							
14199:	RING							
14200:	A HAIR REMOVER							
14201:	ADEPT BALDNESS							
14202:	TALE OF MADNESS							
14203:	ARABIC DIARY							
14204:	WIRED BONES							
14205:	DEMONIC CHIMES							
14206:	CHARRED TALLOW							
14207:	BLACK CANDLE							
14208:	A WEIGHTY CUBE							
14209:	BLACK BOX							
14210:	HOLY RELIQUARY							
14211:	ST.TREBOR RUMP							
14212:	HOLY RELIQUARY							
14213:	BISH'S TONGUE							
14214:	HOLY RELIQUARY							
14215:	ST. RIMBO DIGIT							
14216:	GWILYM'S ARROW							
14217:	ARROW							
14218:	A GOLD BALL							
14219:	ORB							
14220:	A HORN							
14221:	RALLYING HORN							
14222:	A WAX SEAL							
14223:	SIGNET RING							
14224:	SHINY GAUNTLET							
14225:	MYTHRIL GLOVE							
14226:	HOLY RELIQUARY							
14227:	HOLY LIMP WRIST							
14228:	CLOAK							
14229:	TWILIGHT CLOAK							
14230:	CLOAK							
14231:	SHADOW CLOAK							

14232: DUNCE CAP							
14233: CONE							
14234: CLOAK							
14235: DARKNESS CLOAK							
14236: CLOAK							
14237: NIGHT CLOAK							
14238: CLOAK							
14239: ENTROPY CLOAK							
15000: With a feeling of triumph, You exclaim							
15001: "Free at last! Now beware, Jailers,							
15002: for I come to wreak my revenge and							
15003: ^reclaim the Amulet!"							
15050: Before you, in the secret Inner							
15051: Chamber of the Temple, looms a							
15052: gargantuan stone statue of the							
15053: ^Dreampainter covered in writing.							
15100: "So far, so good," You muse. Now for							
15101: the first step in Your Master Plan of							
15102: World Domination (Mark II). "HmMMMM,							
15103: which way seems best, right or left?"							
15200: "I am the Guardian of the Inner Way.							
15201: Return thee to thy prison or die, Oh							
15202: has-been Wizard. Do not try to dis-							
15203: ^turb the lives of honest folk!"							
15400: "I am the Guardian of the Middle Way.							
15401: Cease thy wanderings, and return to							
15402: ^your cell.							
15403:							
15404: This be your final warning, Evil One!"							
15600: "I am the Guardian of the Outer Way.							
15601: ^Suffer and die for your Infamy!"							
15800: "I am the Guardian of the Pyramid of							
15801: Entrapment. Go back to the torment							
15802: of your dreams, Werdna. For but one							
15803: ^step away lies Death!"							
16000: As you kick the thick dust of the							
16001: corridor with your sandal, you hear							
16002: something go flying. Searching, you							
16003: find a green stone streaked with red							
16004: ^veins of a mysterious mineral.							
16200: Dinner is over. The room is empty.							
16201: The small chest on the table yields							
16202: a midnight blue stone streaked with							
16203: ^twinkling stars!							
16400: The Catacombs ---							
16401:							
16402: --- Where the dead live again!							
16550: Aha! A Secret Passage! The shrill							
16551: screams of the Dead are muffled							
16552: here. The floor bears the marks of							
16553: ^the passage of many feet.							
16800: Enter and Abandon All Hope!							
16801: (A traditional Intourist greeting)							
16850: Dante was here!							
16900: Bring your Marshmallows?							
16950: The heat is getting quite unbearable.							
16951: The Glow ahead is intense. What can							

16952: ^be causing it?							
16953: @A monstrous statue rises up from the							
16954: sullenly glowing ground and bars your							
16955: path! Flee while there is still time!							
17200: It's the Abyss!							
17201: May Kadorto have Mercy on your Soul!							
17202: Go Back! Go Back!							
17300: It's the Abyss. Boy have you really							
17301: bought the farm this time. Retreat!							
17400: You plummet into Hell, and the flames							
17401: lick towards you. Slowly, your fall							
17402: begins to check itself as your Boots							
17403: of Levitation begin to arrest the							
17404: powerful attraction of the infernal							
17405: regions! The heat from the flames							
17406: becomes more intense, until it is							
17407: ^almost unendurable!							
17408: @Just as your fall is arrested and you							
17409: begin to rise again, you are able to							
17410: reach out and pluck the Jeweled Fruit							
17411: ^from the Tree of Liquid Fire!							
17412:							
17413: @Upward you rise, until the shatteredd							
17414: Gates of Hell are once again visible							
17415: ^through the flames and smoke!							
17416: @From far below, a mocking voice calls							
17417: out to you: "You are getting warmer,							
17418: but you aren't nearly hot enough for							
17419: ^my tastes! HaHaHah!"							
17420: @Suddenly, a huge jet of flame washes							
17421: up and over you, immolating you in an							
17422: instant! There is an instant of pure							
17423: ^agony, and then you feel no more!							
17700: Read the other sign. It's right							
17701: behind you!							
17702:							
17703:							
17800: Welcome to							
17801:							
17802: The Death of a Thousand Cuts!							
17850: Have you forgotten something?							
17900: Wow! A beautiful piece of amber!							
17901: Embedded within it is the image							
17902: of a Dragon with wings outspread!							
17950: The explosions have exposed a Golden							
17951: ^Vein running through the Cavern!							
17952: Fabulous wealth is here for the tak-							
17953: ing. You spot a small nugget and							
17954: ^hastily grab it!							
18100: You stand before the very Gates							
18101: ^of Hell itself!							
18102:							
18103: The flames are so intense that							
18104: you must shield your eyes from							
18105: ^their infernal brilliance!							
18106:							
18107: You may offer B)ribes, U)se an							

18108: ^!Item or (Hint!) R~un away!					
18149: BUR					
18150: A hideous wail of many tormented souls					
18151: screams forth from the Chimes, shaking					
18152: ^the very foundations of the Gates!					
18200: Each guttural word you utter from the					
18201: Diary takes form and hurls itself					
18202: ^upon the Gates like a battering ram!					
18250: A brilliant light, like a small nova,					
18251: issues forth from the Black Candle,					
18252: and melts the weakened Gates. They					
18253: slowly slump to the ground to form a					
18254: ^pool of glowing metal!					
18255:					
18256: The Gates of Hell are open!!					
18257:					
18258: Do you dare to enter (Y/N) ?					
18300: You enter and fall into the Abyss!					
18301:					
18302: **** Aaaaarrrrrrggggghhhhhh ****					
18303:					
18304: It burns, by the gods, it burns!!!					
18305:					
18306: @The fires of Hell lick and scorch					
18307: your flesh for what seems to be an					
18308: eternity. Finally, the torment is					
18309: at an end. You begin to sink into					
18310: oblivion, grateful to whatever god					
18311: still listens to your prayers.					
18312: @As your eyes close for the last					
18313: time, you see a Jeweled Fruit					
18314: hanging from a Tree of Liquid Fire.					
18315: then all is black. Perhaps this is					
18316: the True Death, the Giver of Peace?					
18317: @					
18318:					
18319:					
18320: Wrong Again!					
18350: Wait! The fires of Hell are not burn-					
18351: ing you! Searching through your gear,					
18352: you see that the Dreampainter's Ka					
18353: is absorbing the terrific heat of the					
18354: conflagration, shielding you.					
18355:					
18356: @As you continue to fall, you pass the					
18357: Tree of Liquid Fire, with its precious					
18358: fruit hanging daintily upon a branch.					
18359: @					
18360: Deeper and deeper into the Abyss you					
18361: descend, witnessing sights which make					
18362: your own evil atrocities look like the					
18363: ^minor peccadilloes.					
18364:					
18365: @The sights you see become too depraved					
18366: even for you! Your mind is twisted by					
18367: the demonic visions! It's torture, a					
18368: torture worse than the fires of Hell!!					

18369:									
18370:	Slowly, with	demented care,	the gods						
18371:	^dismember	your mind!							
18400:	Wait!	The fires of Hell	are not burn-						
18401:	ing you and	your fall is	slowing down!						
18402:	searching	through your	gear, you see						
18403:	that the	Dreampainter's	Ka is absorb-						
18404:	ing the	terrific heat	and shielding						
18405:	you, and	your Boots of	Levitation are						
18406:	^checking	your descent.							
18407:									
18408:	@Just as	your fall is	arrested and	you					
18409:	begin to	rise again,	you are able	to					
18410:	reach out	and pluck the	Jeweled Fruit						
18411:	^from the	Tree of Fire!							
18412:									
18413:	Upward	you rise,	until you pass	back					
18414:	^through	the shattered	Gates of Hell!						
18415:									
18416:	@From	far below,	a mocking	voice calls					
18417:	out to	you: "Have	you forgotten	some-					
18418:	^thing?	HaHaHaHaHa!"							
18419:	@Slowly,	the Gates	of Hell reform						
18420:	^from	the puddle	of slag.						
18450:	You	throw your	offering	through	the				
18451:	Gates	of Hell,	only to see	the Gold					
18452:	^Coins	melt and	vaporize!						
18460:	Nothing	happens!							
18500:	You	are at	ground level,	craning	your				
18501:	neck	to look	upward at	a magnificent					
18502:	Ziggurat.	It	stretches	upward	almost				
18503:	^as	far as	the eye	can see.					
18550:	You	are on	a first	level	ledge	of an			
18551:	extremely	Art-Deco	Ziggurat.	A	close				
18552:	examination	of the	faded	cartouches					
18553:	and	paintings	leads	you	to	the	belief		
18554:	^that	this	is	the	fabled	lost			
18555:									
18556:	"Temple	of the	Dreampainter"						
18557:									
18558:	which	was	dedicated	to	one	of	the		
18559:	ancient	creators	of	this	world,	whom			
18560:	^men	later	called	gods.					
18600:	A	small	sign	on	the	left	wall		
18601:	reads	as	follows:						
18602:									
18603:	**	PRIEST'S	HOLE	**					
18604:	**	For	Emergency	Use	Only!	**			
18650:	This	Way	To	The	Scenic	Vista!			
18651:	(Children	under	the	age	of	90			
18652:	must	be	accompanied	by					
18653:	Parent,	Guardian,	Priest						
18654:	or	Demon	--	NO	EXCEPTIONS!				
18655:									
18656:									
18700:	The	view	from	these	heights	is	truly		
18701:	breathtaking.	Concentric	rings	of	the				

18702: Temple stretch out below. Looking					
18703: outward, you see a small Orange Rod					
18704: that drifts gently around the Temple					
18705: in the mild breeze, occasionally just					
18706: wafting close enough to the Temple					
18707: to be tantalizingly out of reach.					
18750: This really is a Scenic Vista!!					
18751: The ceiling is so close that					
18752: you can almost touch it. Look-					
18753: ing upwards, you can see stairs					
18754: from the top of the Temple that					
18755: lead upwards through the roof					
18756: ^of the level.					
18757:					
18758: Don't get too near the edge, it					
18759: ^looks like a long fall!					
18800: Nothing happens!					
18850: It is generally regarded by most Sages					
18851: that taking the "Holy Hand Grenade of					
18852: Aunty Ock" into Hell is a bad move.					
18853: in the past, you have not been muchly					
18854: impressed with the opinions of Sages,					
18855: but in this case they are DEAD ON!					
18856:					
18857: *** K A B O O O O M ***					
18858:					
18859: @In an explosion that makes one of your					
18860: finest TILTOWAITS look like a wet fire					
18861: cracker, the potent Holy Relic makes a					
18862: very loud noise. It also wrecks large					
18863: areas of the Abyss (blowing it to Hell					
18864: ^and gone, naturally!)					
18865:					
18866: @Oh yes, just in case it has not dawned					
18867: ^upon you---Back to your Bier you go.					
18900: The Gates of Hell slowly reassemble					
18901: ^themselves from the pool of slag.					
18902:					
18903: From far away, from far below, you					
18904: hear a chorus of demonic laughter!					
18950: A Big Blimp is hovering here. Along					
18951: its side is rippling this message:					
18952:					
18953: @Once in a Millennium sale...Lych-gates					
18954: 1/3 off...Never know when you will be					
18955: needing one! Find yours at Boltac's...					
18956: Once in a Millennium sale...Lych-gates					
18957: ^1/3 off.....					
19000: Enter the Realm of the					
19001: Whirling Dervish					
19050: What just happened here?					
19100: While swooping around the temple, you					
19101: are able to pluck the Orange Rod out					
19102: ^of the sky.					
19150: Oops! You can't carry any more Items!					
19200: The Item was placed in the Black Box!					
19250: You can't carry any more Items, and					

19251: The Black Box is full. Too bad!					
19300: You have obtained ^.					
19350: Sigh! There you were, with a chance					
19351: to get a pretty nasty artifact, and					
19352: you didn't have any space to carry					
19353: it with! I thought that you were a					
19354: ^Master Wizardry Adventurer!					
19400: Let me get this straight. After all					
19401: the rigamarole you had to go through					
19402: to get into Hell, you went there and					
19403: had no room to pick up the Item you					
19404: ^worked so hard to get to? Sigh!					
19450: Running around with every Item slot					
19451: full is not considered a smart ploy					
19452: ^by most Master Adventurers.					
19500: Searching slowly in the dusty floor,					
19501: you discover an ancient Pentagon					
19502: carved into the rock. Being careful					
19503: that you do not step inside the					
19504: Circle, you raise your arms and					
19505: ^speak the Words of Summoning!					
19550: This Way To The Egress					
19551:					
19552:					
19600: The cage door slams shut behind you.					
19601: Looks like you have found a new way					
19602: ^to pass eternity.					
19650: Behold - The Maze of Wandering!					
19651:					
19652:					
19653: Watch where you step!					
19700: Upward from this level there is					
19701: ^no turning back!					
19702: @Have you forgotten something?					
19750: EGRESS					
19800: This Way To The Egress					
19801:					
19802:					
19850: A floating sign hovers here, pulsing					
19851: with this message:					
19852:					
19853: Welcome to The Cosmic Cube!					
19854: Spend a lifetime or two having fun!					
19855: (No Deposit, No Return)					
19856: @Ponder upon the ancient mystery of					
19857: The Lady Or The Tigers if you wish					
19858: to tread the hidden ways of the Cube.					
19859: @Before you are three doors:					
19860:					
19861: Upon the left door is written:					
19862: A tiger is in the right room.					
19863:					
19864: Upon the center door is written:					
19865: A tiger is in this room.					
19866:					
19867: Upon the right door is written:					
19868: A lady is in this room.					

19869:	@No room is empty, but only one door				
19870:	tells the truth. Choose wisely, find				
19871:	the lady, and you will take the first				
19872:	step upon the Golden Path. Choose				
19873:	falsely and you will roam The Cosmic				
19874:	^Cube for all eternity!				
19900:	This Way To The Egress				
19901:					
19902:					
19950:	This Way To The Egress				
19951:					
19952:					
20000:	You stumble over the long dead body				
20001:	of some unfortunate explorer. His				
20002:	outstretched hand has scrawled a				
20003:	^few words in the dust:				
20004:					
20005:	"Beware---The Cosmic Cube!				
20006:					
20007:	---The Red S...."				
20008:	@Around his neck is a strange object				
20009:	that looks like the Death Mask of a				
20010:	Demon. Gingerly, searching for the				
20011:	traps you have come to expect, you				
20012:	^remove the object.				
20013:					
20014:	In the distance, the silent screams				
20015:	^of the Butterflies draw nearer!				
20100:	The Creatures of Light				
20101:	and Darkness await you!				
20150:	The door to the Inn is locked.				
20151:	without the Large Brass Key				
20152:	^you cannot gain admittance.				
20200:	"Oh, I say, this is a Meeting of				
20201:	the Order of the Laurel!"				
20202:	@Inside a lovely gazebo amidst the				
20203:	flowers of the Inner Court sit the				
20204:	Masters and Mistresses of the				
20205:	^Laurel, all Peers of the Realm:				
20206:	@Baroness Kathryn Goodwyn, Sigismund				
20207:	Vasa Care, Johannes von Nurenstein,				
20208:	Gabreilla Maddelena Pisano, Arwen				
20209:	Evaine Merch Gwynth, and Salaamall-				
20210:	^ah the Corpulent.				
20250:	"Thou hast done nothing to advance				
20251:	the Arts in the Realm. The Guild				
20252:	of Limners especially needs thy				
20253:	aid. Do not return until thou hast				
20254:	^achieved some skill or craft!"				
20300:	"Oh, thou hast the Daub of Puce.				
20301:					
20302:	The Guild of Limners will be most				
20303:	happy! They have been searching				
20304:	for the ancient recipe for that				
20305:	exact Royal shade for many years				
20306:	so that they might touch up the				
20307:	old painting of Trebor. No other				

20308: shade of deep red would do for					
20309: the nose, for sure! Advance now					
20310: and accept the Accolade of the					
20311: ^Laurels!"					
20350: "Hi there, this is a meeting of					
20351: the Order of the Tyger's Cubs!"					
20352: @"I am Cormac Kyle of Skara Brae.					
20353: These are my friends & companions:					
20354: Patri ibn Cariadoc, Krisha Von					
20355: Halstern, Alison Von Halstern					
20356: Mitchell of Clan Mitchell, and					
20357: ^Luke Maximillian. Come on in!"					
20400: "We have lost our new Page School					
20401: ^ banner. Have you seen it?"					
20402: "We would really like some help,					
20403: @"but do not mess with us, as we					
20404: are Royal Pages, I hope you know!"					
20450: "Thanks for returning our banner					
20451: to us. Here is a ball as a just					
20452: reward. Remember, above all else					
20453: ^have fun!!!"					
20500: The Von Halstern Chivalry:					
20501:					
20502: Sir Manfred Von Halstern, Sir Magnus					
20503: Bloodaxe, Sir Hrymgmar Aeulfson,					
20504: Duke Sir Hanno Von Halstern, Master					
20505: Feral, and Sir Vykora stand aside for					
20506: ^the Noble Werdna!					
20550: This is the Captains' Council.					
20551:					
20552: "We see that you have obtained a					
20553: Royal Pardon! You have been an					
20554: exceptional adversary, and you					
20555: have managed to defeat us all					
20556: at one time or another. For a					
20557: fee of 1,000,000 GP, (consider					
20558: it Weregild) we will bend knee					
20559: to you and pledge our Fealty.					
20560: After all, everyone likes to					
20561: ^back a winner!"					
20600: Will you pay					
20650: You don't have 1,000,000 GP!					
20700: It is said that "the longest part					
20701: of any journey is the first step."					
20702:					
20703: Watch where you step or your trip					
20704: may last an eternity!					
21000: Daylight! You are actually above the					
21001: ground. Ahead of you is the Castle!!					
21002: @A sign on the Castle wall reads:					
21003: No Flying Allowed Near The Castle.					
21004: No Moat Diving From The Ramparts.					
21005:					
21006: This Means YOU!!!					
21050: The Edge of Town					
21100: The Training Grounds					
21150: Welcome (?) to Boltac's Trading Post					

21200: The Adventurer's Inn						
21201: 1/2 Star - Mychelyn Guide						
21202: Visa, Mordor Charge accepted						
21250: Gilgamesh's Tavern						
21251: "Potent Potables"						
21252: Step in and step up to the bar!						
21300: The Temple of Cant						
21301: We support the Fundamental Freedom						
21302: to worship the God of *OUR* choice.						
21350: ** THE GREAT GOD KADORTO **						
21351: All in his presence must						
21352: abase themselves!						
21400: The tall Donjon rises before you.						
21401: It is the Citadel of the Castle.						
21450: So this is the fabulous Boltac's.						
21451: Look at all the toys. Too bad he						
21452: won't sell to the likes of you,						
21453: ^even if you paid in Mythril!						
21454: @Hmmm... isn't that the legendary						
21455: Lych-gate of the Archmage Phred?						
21456: It has been rumored capable of						
21457: razing Castles when in the hands						
21458: of one who is truly Evil. <Grin>						
21500: Try to steal the Lych-gate						
21550: You have interrupted a meeting of						
21551: The Ladies of the Rose.						
21552:						
21553: Seated around a table sipping tea						
21554: are their Graces Khadijah of House						
21555: Hakim, Wanda Von Halstern, Diana						
21556: Alene, and Kunegunda Henschel Von						
21557: Schattenberg, and their Excellen-						
21558: cies Ecaterina Amber of Tospewood						
21559: ^and Mara Tudora Kolarova.						
21600: "Begone, Oh unchivalrous cur, and						
21601: ^take thy stench with thee!"						
21650: "Begone, Oh unchivalrous cur. No						
21651: matter how sweet thou might seem,						
21652: ^we know thee by thy deeds!"						
21700: "Tales of thy chivalrous action						
21701: towards thy most bitter enemy,						
21702: Trebor, have reached us. Yet,						
21703: bring not thy foul stench amongst						
21704: ^women of quality!"						
21750: "Tales of thy chivalrous action						
21751: towards thy most bitter enemy,						
21752: Trebor, have reached us, and thou						
21753: hast also bathed away the stench						
21754: ^of thy past."						
21755: @"Advance and receive our Token of						
21756: Grace. Keep it on thy person						
21757: at all times, for it is a Royal						
21758: Pardon for thy crimes, and none						
21759: shall bother thee whilst thee						
21760: ^wear it!"						
21800: Herein meets						
21801: The Order of the Pelican!						

21802: @Master El of the Two Knives is					
21803: addressing the Order. Other					
21804: Masters and Mistresses here,					
21805: all Peers of the Realm, are:					
21806: Aravis Katheryn Delclare, Jae-					
21807: Ila of Armida, Alisoun Maccoull					
21808: of Elphane, Steffan ap Cenydd					
21809: of Silverwing, and Anne of					
21810: ^Hatfield.					
21850: "Get out! Thou hast done no					
21851: ^service for this Realm!"					
21900: Advance and take this Cap, that					
21901: all might know of the service ye					
21902: have performed for the Realm by					
21903: restoring the fabled Temple of					
21904: the Dreampainter to its full					
21905: ^glory!"					
21950: Just as you are about to dive into					
21951: the beautifully clear water, the					
21952: lifeguard comes running over and					
21953: grabs you by the neck and seat.					
21954: @As you sail through the air, you					
21955: hear, "Begone, thou art much too					
21956: soiled and stained to bathe in					
21957: The Royal Pool. Do not come back					
21958: until thy hast cleansed thyself!"					
22000: Halt! No further may thee travel					
22001: unless thou hast decided to seek					
22002: ^thy destiny in the Amulet!					
22050: Is this thy wish					
22100: Then thou hast to get past us,					
22101: ^for we guard this Portal!					
22150: In this study meets the Council of					
22151: Barons. Seated in front of the					
22152: fireplace are the most powerful					
22153: Barons of the Realm: Sir Patri du					
22154: Chat Gris, Baroness Elspeth Keyf					
22155: of Neddingham, Baron Yosef Alaric,					
22156: Baron Eofn ap Erwyn, Baron Leonard					
22157: the Younger, and Baron Algernon					
22158: ^Hartesmond.					
22159: @A Page comes running in with a cup					
22160: ^of Mead and a large parchment.					
22161:					
22162: "This document pledges you to					
22163: reinstate our traditional Rights					
22164: and Privileges stolen by Trebor!"					
22180: Will you sign it					
22200: "In return for your pledge, we in					
22201: turn give our Oath of Loyalty					
22202: and support. Take this Ring of					
22203: Good Counsel and wear it as a					
22204: ^token of our mutual Fealty!"					
22250: "Then to Hell with you and your					
22251: infernal arrogance," proclaims					
22252: Baroness Elspeth, as she sends					
22253: you on your way with a wave of					

22254: ^her hand!					
22300: Your Maintenance Cap instills in					
22301: you the knowledge you need to					
22302: ^repair the fountain!					
22350: Before you is a small grotto,					
22351: filled with sparkling water. A					
22352: large number of clawprints can					
22353: be seen around the pool, but					
22354: there is no creature in sight.					
22355: @You have found the Ron Wartow Not-					
22356: Yet-Memorial Wading Pool, which is					
22357: dedicated to the Elite who jump to					
22358: brilliant, logical conclusions, but					
22359: alas, are wrong! Ponder this from					
22360: "the Wartowliedtod" before bathing:					
22361: @"Oh, will he ever return?					
22362: ^ Will he ever return?					
22363: ^ His fate is still unlearned!"					
22400: As you desperately paddle out of					
22401: the Pool, your hand falls upon a					
22402: Forked Stick that is floating in					
22403: the pool, apparently unharmed by					
22404: ^the Acid.					
22450: Before you is a small Pool of					
22451: Shimmering Liquid, surrounded					
22452: by a grove of Majestic Oaks.					
22550: You have found one of the many					
22551: majestic fountains that are					
22552: scattered about the Castle. A					
22553: ^sign next to this one reads:					
22554:					
22555: "Fountain Closed For Repairs."					
22556: " No Wading At Any Time. "					
22557: "Keep Off The Grass As Well!"					
22600: You have found one of the many					
22601: majestic fountains that are					
22602: scattered about the Castle. A					
22603: ^sign next to this one reads:					
22604:					
22605: "Fountain Open For Public Bathing."					
22606: " Lifeguard Must Be On Duty! "					
22607:					
22608: There is no lifeguard in sight...					
22650: As you bathe in this Pool, you feel					
22651: strangely refreshed. You emerge in					
22652: the very pink of good health. Your					
22653: Monster allies take one look at the					
22654: new YOU, sparkling clean, smelling					
22655: of wild flowers and with a blush on					
22656: your cheeks, and flee in terror!!!!					
22700: Argggghh!! This Pool is full of					
22701: Acid, leached from the Oaks. IT					
22702: ^BURNS!					
22750: As you bathe in this Pool, you are					
22751: enveloped by a feeling of forebod-					
22752: ing. Suddenly, the weight of your					
22753: past Evil deeds descends upon your					

22754: ^stooped shoulders again!					
22800: As you bathe yourself in the Pool,					
22801: it is as if the Evil of your Soul					
22802: ^has been somewhat cleansed!					
22850: A pleasant dip, but nothing seems					
22851: ^to have happened...					
22900: A Hoplite advances upon you. Stops.					
22901: Salutes. He yells into your ear in					
22902: ^bad Attic Latin...					
22903:					
22904: "Halt, and give the Password, Sir!"					
22950: \$TREBOR SUX					
23000: Everywhere there is a brilliance that					
23001: is intolerable to look upon. From					
23002: ^somewhere comes a deep voice...					
23003:					
23004: "I am Attainment. I am that part of					
23005: the body that is above all the rest,					
23006: yet beyond mere touch. What am I?"					
23050: \$CRANIUM					
23051: \$BRAIN					
23100: Feeling like you are floating in a					
23101: vast sky, you enter this room of					
23102: pure soft blue. The being dressed					
23103: in a diaphanous blue kirtle speaks					
23104: ^to you...					
23105:					
23106: "I am Devotion. I am also that part					
23107: of the face upon which the Moon doth					
23108: ^rise. What am I?"					
23150: \$LEFT CHEEK					
23200: Blood-red crimson is the color of this					
23201: room. Nothing is heard, but then the					
23202: being dressed in crimson robes writes					
23203: ^in fiery letters in the air...					
23204:					
23205: "I am the Virtue of Silence, and the					
23206: Vice of Avarice. I am that part of					
23207: the face upon which the sun rises each					
23208: ^day. What am I?"					
23250: \$RIGHT CHEEK					
23300: Somber is this room. Everywhere a					
23301: deep violet absorbs all. The being					
23302: ^here intones...					
23303:					
23304: "I am Obedience, yet I also beat the					
23305: Drum of Bigotry. I hold the shield					
23306: ^that protects. What am I?"					
23350: \$LEFT ARM					
23351: \$LEFT HAND					
23400: Orange are the walls and orange is the					
23401: brigandine of the being who greets you					
23402: ^in this room...					
23403:					
23404: "I am Courage, but I am also Cruelty.					
23405: I hold the sword, yet I can also hold					
23406: ^the whip. What am I?"					

23450: \$RIGHT ARM							
23451: \$RIGHT HAND							
23500: This entire room seems to be carved							
23501: out of a single huge slab of clear							
23502: rose-pink quartz. The being in the							
23503: room wears armor of the same trans-							
23504: ^lucent color...							
23505:							
23506: "I am Devotion To Great Work, but							
23507: as Pride I can ruin all. Within me							
23508: beats the great heart, the mighty							
23509: ^engine. What am I?"							
23550: \$BREAST							
23551: \$CHEST							
23600: Amber glow the walls here. Amber too							
23601: is the houppelande of the being							
23602: ^waiting here...							
23603:							
23604: "I am Unselfishness, yet I am Lust. I							
23605: am the foundation of the body upon							
23606: ^which the main rests. What am I?"							
23650: \$HIPS							
23700: Regalness pervades this room. The							
23701: walls and pillars are of a violet-							
23702: purple. The being here is swathed							
23703: ^in the Royal Cloth of Tyre...							
23704:							
23705: "I am Truthfulness on one hand, and							
23706: Falsehood on the other. I symbolize							
23707: the parts of the body that are its							
23708: ^main support. What am I?"							
23750: \$LEGS							
23800: The walls of this room are all indigo.							
23801: Before you stands a being wrapped in a							
23802: ^dazzling indigo toga...							
23803:							
23804: "I am Independence yet I am Idleness.							
23805: I symbolize the part that fuels the							
23806: ^the body with energy. What am I?"							
23850: \$STOMACH							
23900: You are in a yellow room. Before you							
23901: stands a being dressed from head to							
23902: ^toe in deepest yellow...							
23903:							
23904: "I am Discrimination at my best, and							
23905: Avarice at my worst. I symbolize the							
23906: part of the body upon which all the							
23907: ^rest stands. What part am I?"							
23950: \$FEET							
24000: Beyond this doorway lies the Great							
24001: Void, the absence of all. Only a							
24002: Great Seeker may venture into this							
24003: endless emptiness. Unless you are							
24004: properly prepared, you will not							
24005: survive. Enter if you have the							
24006: means to cross the Void, otherwise							
24007: be content in the Mysteries that							

24008: you have learned so far. Are you					
24009: ^ready (Y/N)?					
24050: YN					
24100: The answer to the Greatest Question					
24101: is also the simplest. Upon what					
24102: Paths have you trod? Where are you?					
24150: \$TREE OF LIFE					
24200: All the colors of the Universe					
24201: radiate off the walls and floor					
24202: of this room. The being here is					
24203: dressed in a miparti...					
24204:					
24205: "I am Knowledge. as a Seeker of					
24206: Truth, I present you with this					
24207: gift. With it, you can cut the					
24208: Veils of Illusion. Now go. You					
24209: ^have a destiny to fulfill!					
24250: Assembled before you are the great					
24251: Dukes of the Realm: Duke Akbar ibn					
24252: Murad Al-ben Muhammed ibm Hakim,					
24253: Duke Siegfried Von Halstern, Duke					
24254: Cariadoc of the Bow, Duke Vissevald					
24255: Selkriksson, Barak Duke Hasdrubal					
24256: ^and Duke Ronald Wilmot.					
24300: Duke Akbar, as Senior Duke present,					
24301: ^challenges you:					
24302:					
24303: "We note that thou comest before us					
24304: bearing a God-given Sword and the					
24305: support of the Peers, Mercenaries					
24306: and Barons of the Realm. Thou hast					
24307: also lain the tormented spirit of					
24308: ^our late mad Overlord to rest."					
24309: @"Each of us has been Champion of					
24310: the Realm and has won countless					
24311: victories upon the Field of Honor.					
24312: Art thou willing to prove thy cour-					
24313: age and nobility by accepting single					
24314: combat from each of us here assemb-					
24315: led? Remember, by the rules of					
24316: the list, thou can use neither thy					
24317: allies nor thy Arts Magical in this					
24318: contest--- May God Defend The Right!					
24340: Do thee accept our challenge					
24350: "By thy willingness to accept the					
24351: challenge, in conditions most un-					
24352: favorable to thyself, thou hast					
24353: proven thy willingness to live					
24354: (and die) by the Chivalric Codes!"					
24355: @Looking around at his fellow Dukes,					
24356: Duke Akbar continues, "because of					
24357: all that thou hast become, and for					
24358: the many fine deeds thou hast done					
24359: for the good of the Realm, we have					
24360: decided to offer to thee Rulership					
24361: of all of our lands and estates					
24362: in the hope that thou wilt govern					

24363: justly, and reunite our strife-torn					
24364: Dominions. We would have an end to					
24365: this constant warring between our					
24366: people and the many Monsters that					
24367: dwell in the Planes adjoining ours.					
24368: @Thou art our best hope to stride the					
24369: Worlds. Wilt thee give up thy Quest					
24370: for the mystical Amulet and accept					
24371: the title of Overlord with all its					
24372: power and responsibility? Consider					
24373: our offer carefully, for only once					
24374: will it be offered! Wilt thee assume					
24375: now the Throne and take the Crown?"					
24390: Assume the Throne					
24400: "Then may the gods support thee in					
24401: ^thy Quest. Good luck to thee!"					
24450: "Craven coward, thou shalt die like					
24451: ^the cur thou art! To arms!"					
24500: The assembled Peers and Commoners					
24501: shout their approval!					
24502:					
24503: "Long live The Overlord Werdna!"					
24504:					
24505: "Vivant!! Vivant!! Vivant!!"					
24506: @Then a hauntingly familiar voice					
24507: ^whispers in your ear,					
24508:					
24509: "Remember - a favor owed...someday...					
24510: Be Seeing You! <Cackle> <Cackle>"					
24511: @ ** Future Historical Footnote **					
24512:					
24513: Under your benign and enlightened					
24514: Rulership, the Realm will enter a					
24515: ^Golden Age of Peace and Plenty.					
24516:					
24517: The evil acts of the past will be					
24518: forgiven, and your people will					
24519: ^surely remember you fondly!					
24520:					
24521: But even so, as the years pass,					
24522: ^you will always wonder...					
24523: @					
24524:					
24525:					
24526:					
24527:					
24528: "Have You Forgotten Something?"					
24550: You see an old Witch stirring a					
24551: large cauldron:					
24552:					
24553: "So nice of you to wander by (Heh,					
24554: Heh, Heh), my fine fellow. Are you					
24555: ^enjoying your travels? <Snicker>"					
24556: @"A man with your aspirations					
24557: should definitely have some of					
24558: my famous 'Blue Blood Special'.					
24559: If you have the makings, I'll					

24560: ^be glad to brew you a batch!"					
24600: "Let's see now what parts					
24601: of the recipe you have.."					
24650: You need ^					
24651: You have ^					
24652: Camphor					
24653: Rabbit's Fur					
24654: Fe s-sub-2					
24655: Tannic Acid					
24656: Spanish Unguent					
24657: a Blender					
24700: "My my! You will have to go find					
24701: some more ingredients before I					
24702: ^can help you."					
24703: @"Be Seeing You! <Cackle> <Cackle>"					
24750: "Well, you have been an industr-					
24751: ious young man! You have all of					
24752: ^the ingredients of my recipe!					
24753:					
24754: "I'll be happy to make my brew,					
24755: but naturally, I will require a					
24756: token of payment. Not money, of					
24757: course...just a favor at a later					
24758: ^date. <Cackle>"					
24790: Accept the deal					
24800: "Bubble, bubble, toil and trouble,					
24801: Cauldron boil and cauldron bubble!"					
24802:					
24803: "Oh, don't mind the theatrics, it					
24804: is all part of the union contract.					
24805: We have to keep up our image, you					
24806: know. Just hold on a minute and I					
24807: will get your 'Blue Blood Special'					
24808: ^out of the refrigerator..."					
24809: @"Be Seeing You! <Cackle> <Cackle>"					
24850: Aha! A hidden room jutting out of					
24851: the Donjon's side. What a great					
24852: view of the town from here. In the					
24853: ^room is a wizened old scholar...					
24854: @"Greetings, Werdna. I am Master					
24855: Bertram, Curator of the Overlord's					
24856: Treasure Room. I have an item that					
24857: you dearly require. Tell me what					
24858: ^it is, and it shall be yours!"					
24900: \$MYTHRIL GAUNTLET					
24901: \$MYTHRIL GLOVE					
24950: You are truly to be counted					
24951: amongst the Wise.					
25000: Guarding the doorway into the					
25001: Inner Sanctum of the Temple is					
25002: Lord Hawkwind of Skara Brae,					
25003: Elfin Ninja--the last member of					
25004: the Softalk All-Stars. He ob-					
25005: serves you with calm disdain.					
25006:					
25007: "Thou shalt not pass this way,					
25008: ^this day or ever!"					

25040: LORD HAWKWIND noticeth it not!					
25050: LORD HAWKWIND ^!					
25051: Laughs					
25052: Chuckles					
25053: Snickers					
25054: Reads "Pikestaff"					
25055: Answers His Mail					
25056: Files His Nails					
25057: Sends Out For Sushi					
25058: Ignores You					
25059: Pets His Dragons					
25060: Pays For The Sushi					
25061: Feeds Sushi To His Dragons					
25062: Pretends To Take A Nap					
25063: Really Falls Asleep (From Boredom)					
25064: Wakes Up					
25065: Brushes His Teeth					
25066: Brews Tea					
25067: Oils His Blade					
25068: Says His Morning Prayers					
25069: Petitions To Offer You Up As A Sacrifice					
25070: Fills Out Sacrificial Order Form In Triplicate					
25071: Gets Approval For Your Sacrifice					
25072: Binds And Gags You					
25073: Puts You On The Sacrificial Altar					
25074: Anoints You With Sacrificial Oils					
25075: Sacrifices You To Kadorto					
25100: Parry					
25101: Bind					
25102: Place					
25103: Anoint					
25104: Sacrif					
25150: Kadorto is pleased that the pious					
25151: Lord Hawkwind has offered up a					
25152: Sacrifice, but considers you to be					
25153: a very poor substitute for a Goat!					
25154: VL					
25200: Amid the clutter of empty Mead bot-					
25201: tles and wine flasks pitched up on					
25202: the roof of Gilgamesh's Tavern, you					
25203: ^discover a packrat's nest.					
25240: Rummage in the nest					
25250: Trash, trinkets, toys, tribbles,					
25251: Great Uncle Ted, a Black Hole, an					
25252: old copy of Terror of Tiny Town,					
25253: ^lots of junk!					
25254: @Hey, wait a minute! A Black Hole?					
25255: Hmm, something is pulsating within!					
25290: Reach in and grab for it					
25300: Good idea! You could have lost					
25301: a hand that way!					
25350: The nest has been disturbed and					
25351: there is nothing left in it but					
25352: Great Uncle Ted, who always was					
25353: ^the last to leave!					
25400: "Cream! Vanishing Cream! Get your					
25401: Vanishing Cream here! It's going					

25402: fast! Only a few jars left! Only					
25403: 50,000 GP a jar! Truly the buy of					
25404: a lifetime - You'll curse the day					
25405: ^you didn't get some!"					
25440: Buy Cream before it vanishes					
25441:					
25500: In the corner are scattered some					
25501: small White Spheres. They look					
25502: ^somewhat like marbles.					
25540: Pick up a marble					
25541:					
25600: "Psst...Hay Meester...You wanna					
25601: buy some you know what? Cheap!					
25602: ^Only 100 GP!"					
25640: Buy some "You Know What"					
25641: d					
25700: "What do you seek the most,					
25701: Oh Pilgrim?"					
25750: \$AMULET					
25800: Relax...Sit back...Close your eyes.					
25801: You are trying too hard.					
25802:					
25803: Let the Energies that surround you					
25804: here resonate within your body.					
25805: @Reflect upon each of the Oracle's					
25806: visions--one holds the answer.					
25850: You need to reflect more before you					
25851: ^may seek this Path!					
26000: Before you looms the giant statue of					
26001: the Almighty Kadorto. You are not					
26002: ^even as tall as his little toe!					
26003:					
26004: As you crane your neck backwards and					
26005: look up, you see the object of your					
26006: long search. The mystical Amulet is					
26007: dangling from the closed fist of the					
26008: ^statue!					
26009: @"At last!" you cry, but your joy is					
26010: short-lived. There is no way that you					
26011: ^can see to reach the Amulet!					
26012: @Fighting back a growing feeling of					
26013: desperation, you try everything you					
26014: can think of to get to the Amulet.					
26015: Every spell you know is useless! You					
26016: rummage through your items, trying					
26017: each in turn, hoping that one will					
26018: ^be of aid!					
26050: Alas, nothing seems to work. the					
26051: Priests of the Temple laugh at you					
26052: openly. Says one, "Oh fool, we of					
26053: Kadorto let all make attempts at					
26054: possessing the Amulet, so sure are					
26055: we that only a God could take it!					
26056: ^Now begone! Try again tomorrow!					
26100: What luck! Your Holy Limp Wrist					
26101: Reliquary casts a DIALKO spell!					
26102: With a feeling of triumph, you					

26103: watch as the DIALKO takes effect.					
26104: The hand of the statue softens and					
26105: opens, freeing the Amulet. To your					
26106: amazement, the DIALKO spreads out.					
26107: @The newly awakened God yawns and					
26108: peers down at you with a look of					
26109: ^utter contempt.					
26110:					
26111: "Insect! So you want this pretty					
26112: bauble? You have no idea what the					
26113: powers of this Amulet are, or what					
26114: its real purpose is. Here! Catch					
26115: ^it!"					
26116: @Kadorto throws the Amulet at you					
26117: with a disdainful flip of his huge					
26118: ^wrist!					
26150: You reach out and catch the Amulet!					
26151:					
26152: You have it in your hand!					
26153:					
26154: Wait a moment..					
26155:					
26156: You have it in your hand!					
26157: YOUR BARE HAND!					
26158:					
26159: * * p o o f * *					
26200: You reach out and catch the Amulet!					
26201:					
26202: You have it in your hand!					
26203:					
26204: The Mythril Gauntlet protects you					
26205: ^from its raging energies!					
26206: @"Hmmm...", intones Kadorto, "Think					
26207: you're clever, don't you? Well, to					
26208: keep the Amulet, you will have to					
26209: defeat me!"					
26210:					
26211: "Tell me, are you a God?"					
26212: @Thinking quickly, you reply, "Yes!",					
26213: which seems to be the right answer.					
26214:					
26215: #"Then die like a God!"					
26250: Kadorto looks you over closely, and					
26251: then declares:					
26252:					
26253: "You come before Me armed with mere					
26254: toys! Hah! Hah! Hah! Back to your					
26255: ^Bier old fool!"					
26300: You draw your Green Sword and begin					
26301: the battle. Old forgotten powers					
26302: awaken and the sword leaps to attack					
26303: the pompous Kadorto. The sword par-					
26304: ries thunderbolt after thunderbolt					
26305: while you bide your time looking for					
26306: ^an opening...					
26307: @There it is! A quick thrust to the					
26308: ankle! Kadorto looks puzzled as a					

26309: thread of green lightning snakes up					
26310: his legs. In a flash, he becomes a					
26311: ^towering statue of green stone!					
26312: @Fascinated beyond all caution, you					
26313: reach out to feel the statue. The					
26314: entire statue crumbles to dust when					
26315: you touch it! The room is filled					
26316: with choking dust. You try to run					
26317: outside, but you can't hold your					
26318: breath long enough. As you inhale					
26319: the dust, you hear a smug laugh and					
26320: Kadorto's voice whispers "Gotcha!!"					
26321: @You feel yourself stretching and					
26322: growing rapidly. You are very diz-					
26323: zy... the room is spinning around!!					
26324: You sit down. Ah, that feels much					
26325: better! You try to stand. What???					
26326: You can't move! You can see and					
26327: ^hear, but you cannot move!					
26328: @The frightened Priests return in the					
26329: morning and find that a miracle has					
26330: happened! A somewhat different Kad-					
26331: orto, all green, sits on the Throne,					
26332: ^the Amulet clutched in his fist!					
26333: @There you sit, playing God, aware					
26334: of each slow second's passing,					
26335: hoping that some greedy fool will					
26336: come and try to steal the Amulet,					
26337: releasing you. Centuries pass,					
26338: and you realize that you got what					
26339: you always wanted, the adulation					
26340: and worship of many people. How					
26341: ironic...					
26342: #But you always have this nagging					
26343: ^doubt.. You always wonder..					
26344: #Have You Forgotten Something?					
26350: You draw your Blue Sword and begin the					
26351: battle. Ancient forces are pulled in-					
26352: to the battle, and your sword begins					
26353: to glow fiercely. Kadorto lunges down					
26354: at you, but you leap nimbly aside. His					
26355: blow makes rubble of the marble floor!					
26356: Faster and faster your spinning blade					
26357: weaves a deadly pattern in your hands!					
26358: @You leap high onto the foot of the					
26359: Throne. Kadorto is just recovering					
26360: from his attack and is still bent					
26361: over. On its own volition, the sword					
26362: licks out and touches Kadorto's chest!					
26363: ^The sword scores a Critical Hit!					
26364: @Kadorto utters a strange gurgle, some-					
26365: what like a laugh, then with a shimmer					
26366: ^of distorting light, he vanishes!					
26367: @The Priests enter and proclaim you the					
26368: new God! "What size and shape would					
26369: you like, Oh God?", they ask. "My own					
26370: will be sufficient!", you reply. The					

26371: ^Priests are not overly impressed.					
26372: @"How quaint," says one, glancing up at					
26373: the empty Throne, "At least Kadorto					
26374: knew how to look like a God. Well, we					
26375: will do the best with what we have.					
26376: Wait until you see the new robes we					
26377: will design for you, the Ceremonies					
26378: and Processionals! We will take good					
26379: care of you, Oh Werdna! Your every					
26380: ^wish is our command!"					
26381: @The years pass quickly as you settle					
26382: into the God business. Using the pow-					
26383: er of the Amulet, you raise huge temp-					
26384: les, spacious retreats, and luxurious					
26385: ^monasteries for your loyal Priests.					
26386: @Oh, the people grumble under the bur-					
26387: den of their tithing. Perhaps you are					
26388: pushing things a little. "But no," a					
26389: priest whispers into your ear, "Yours					
26390: is the greater glory. The people love					
26391: You for it, and You must guide them."					
26392: #But yet, even though you are a God,					
26393: ^how and then, you wonder...					
26394: #Have You Forgotten Something?					
26400: You draw your Dragon's Claw. It hums					
26401: with anticipation. Kadorto laughs at					
26402: ^you, "What will you do with that?"					
26403: @Actually, you are not quite sure, but					
26404: it has sustained you through many					
26405: trials, lending you its strength and					
26406: energy. Kadorto sends down a pillar					
26407: of flame... and the blade absorbs it!					
26408: He throws a bolt of lightning, only to					
26409: see the blade cleave it in half!					
26410: @You feel filled with energy!! You let					
26411: fly with a mighty blow, and your sword					
26412: strikes true, slicing deep into the					
26413: big toe of Kadorto! You feel his life					
26414: force flowing into you through the					
26415: sword. As it does, you begin to grow					
26416: and he begins to shrink! Finally, you					
26417: are the tall God, and he is the puny					
26418: mortal. "Thank you, free at last", he					
26419: ^croaks as he expires!					
26420: @You laugh as the Priests scurry around					
26421: removing the remains. Finally, they					
26422: all assemble in front of you, abasing					
26423: themselves and raising their voices					
26424: ^upward in supplication:					
26425: @"All pray to you, Oh Great God Werdna.					
26426: We rejoice the weak pacifist Kadorto					
26427: has been defeated! Take up the sacred					
26428: Amulet. Lead us, oh mighty one, into					
26429: glorious battle. Make the world trem-					
26430: ble at your every step! Let us fill					
26431: the altars with sacrifices, and the					
26432: ^temple with gold and slaves!"					

26433: @The years pass by in a blur of fire,					
26434: blood and destruction. Large areas of					
26435: the world lie desolate. Your Priests					
26436: bloat you with sacrifices and praise.					
26437: After this, there are other Planes to					
26438: conquer, other Planes whose energy can					
26439: feed your lust for power! You have					
26440: all your desires, all your dreams ful-					
26441: filled! But yet.....every once in a					
26442: ^long while, you wonder...					
26443: #Have You Forgotten Something?					
26450: You draw your Dagger of Clear Light,					
26451: and face Kadorto unafraid, for you are					
26452: whole and secure in your Knowledge of					
26453: The Tree of Life. Kadorto stops his					
26454: ^laughing when he sees your blade.					
26455: #^No, no, not that!", he cries!					
26456: @The Kris blazes forth. In its clear					
26457: penetrating light, no lie or illusion					
26458: can remain. Kadorto's motions become					
26459: jerky, and smoke begins to pour out of					
26460: his knees and elbows. His head pops					
26461: open, and a singed high Priest climbs					
26462: ^out of a concealed control cabin.					
26463: @Now you see the real truth! Kadorto is					
26464: a fake, an invention of the Priests,					
26465: a cunning device to perpetuate their					
26466: social position and control over men!					
26467: @You laugh at the ridiculous sight of a					
26468: high Priest with his robes smoldering.					
26469: It feels good to be alive.You take out					
26470: the Amulet, and in the light of the					
26471: Kris, you see it for what it really					
26472: is: a dangerous trap for those unwary,					
26473: ^a joke of the Gods.					
26474: @For it is neither Good or Evil, but					
26475: fashioned out of pure chaos. You vow					
26476: to "return it" to its Makers, and you					
26477: are sure the Kris of Truth will aid					
26478: you. But that can wait for tomorrow.					
26479: ^Today is to be enjoyed!					
26480: @Outside, into the beautiful sunshine,					
26481: you walk. Feeling at last free and					
26482: alive. You have returned to the world.					
26483: You look back at the temple for a					
26484: ^moment, and wonder...					
26485: #Have You Forgotten Something?					
26486: @You laugh, for you know that you have					
26487: not. You are master of your fate, and					
26488: the winding paths of the Tree Of Life					
26489: illuminate the shape of your destiny!					
26490: @* * * Congratulations * * *					
26491:					
26492: You have returned. You have found the					
26493: path of fulfillment! Give us a call at					
26494: (315)393-6633 and tell us about it!					
26495:					

26496: @The authors of this program would like						
26497: to congratulate you on your skill. In						
26498: recognition of your ability, we confer						
26499: ^upon you the rank of:						
26500:						
26501: Wizardry Grandmaster Adventurer						
26502: #PS: Have You Forgotten Something?						
26503: #PPS: Don't worry, you haven't.						
26504: @PPPS: Don't tell anyone else how to						
26505: win. Let it be as much a challenge						
26506: ^to them as it was to you!						
26507: @PPPPS: This really is						
26508: The End Of The Game!						
26509: #PPPPPS: Trust Us!						
26510: #PPPPPS: Really!						
26511: #PPPPPPS: You have done it all!						
26512: #Be Seeing You! <grin>"						
26550: * * * Congratulations * * *						
26551:						
26552: You have completed						
26553: #The Return Of Werdna!						
26554: @The authors of this program would like						
26555: to congratulate you on your skill. In						
26556: recognition of your ability, we confer						
26557: ^upon you the rank of:						
26558:						
26559: Wizardry Master Adventurer						
26560: @We hope you are satisfied with						
26561: your fate. If not, then consid-						
26562: er that anything is possible...						
26563: #...Even if highly improbable!						
26564: @It is those "what if" nexuses						
26565: that change our destinies.						
26566: Freedom of choice is one of						
26567: the great gifts of Lord Maya!						
26568: Suppose you had chosen to						
26569: take a different Item, or						
26570: tread yet another Path? How						
26571: altered would be your fate?						
26572: Go and find your Dreams!						
26573: @But remember to only seek						
26574: what you will be happy to						
26575: ^find! <grin>						
26576: #Be Seeing You!						
28000	2	60	0			
28001	4	56	4	187	8	
28002	4	62	4	13	7	
28003	4	169	4	39	2	
28004	4	187	4	42	2	
28005	4	195	4	77	2	
28006	4	2	5	61	0	
28007	4	106	5	98	4	
28008	4	236	5	207	0	
28009	4	249	5	2	4	
28010	4	20	6	240	4	
28011	4	52	6	70	7	
28012	4	66	6	210	7	

	28013	4	71	6	193	1	
	28014	4	133	6	203	7	
	28015	4	176	6	51	2	
	28016	4	199	6	154	1	
	28017	4	217	6	197	5	
	28018	4	221	6	107	0	
	28019	4	90	8	57	3	
	28020	4	146	8	171	1	
	28021	4	171	8	0	0	
	28022	4	245	8	160	5	
	28023	4	253	8	64	6	
	28024	4	9	9	229	2	
	28025	4	34	9	199	0	
	28026	4	58	9	60	3	
	28027	4	73	9	191	1	
	28028	4	91	9	197	0	
	28029	4	133	9	231	4	
	28030	4	147	9	20	2	
	28031	4	166	9	98	6	
	28032	4	176	9	192	2	
	28033	4	210	10	161	1	
	28034	4	228	10	42	6	
	28035	4	240	10	9	8	
	28036	4	252	10	142	5	
	28037	4	76	11	19	7	
	28038	4	81	11	56	4	
	28039	4	94	11	74	7	
	28040	4	103	11	93	6	
	28041	4	106	11	254	8	
	28042	4	125	11	205	6	
	28043	4	174	11	52	9	
	28044	4	198	11	70	4	
	28045	4	216	11	134	1	
	28046	4	65	12	217	2	
	28047	4	171	12	164	6	
	28048	4	206	12	103	5	
	28049	4	231	12	231	0	
	28050	4	41	13	81	6	
	28051	4	86	13	209	4	
	28052	4	135	13	152	3	
	28053	4	210	13	56	6	
	28054	4	219	13	80	6	
	28055	4	3	14	182	4	
	28056	4	195	14	248	4	
	28057	4	232	14	133	7	
	28058	4	12	15	95	7	
	28059	4	28	15	87	3	
	28060	4	156	15	82	3	
	29000: WERDNA						
	29001: holding the short end of the stick!						
	29002: KADORTO						
	29003: waiting for you!						
	29004: ADAMS						
	29005: grinning sardonically!						
	29006: WOODHEAD						
	29007: taking a well-deserved vacation!						
	29008: GREENBERG						

29009: counting royalties in the tropics!					
29010: KILROY					
29011: (or rather, was) here!					
29012: WARTOW					
29013: saying "I knew that!"					
30000:					
30001:					
30002:					
30010:					
30050:					
30051:					
30052:					
30053:					
30054:					
30100:					
30101:					
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30660:								
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30751:								
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30753:								
30851:								
30852:								
30860:								
30861:								
30862:								
30863:								
30864:								
30950:								
30951:								
30952:								
30953:								
30954:								

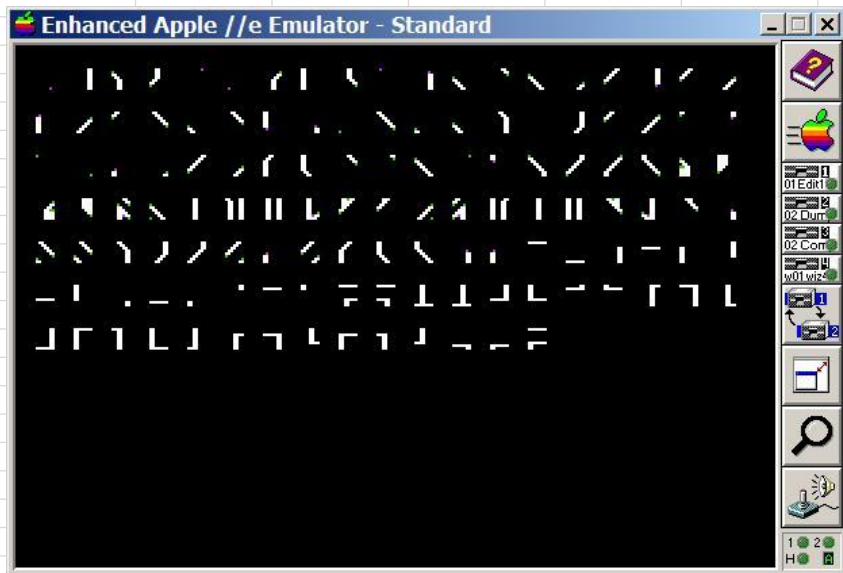
200.CHARSET contents

Chars 0..127

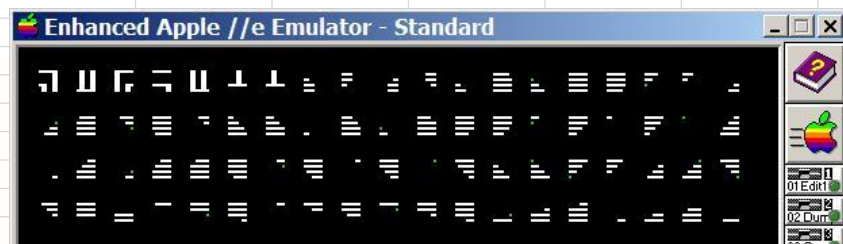


Chars 128..255 are blank (?)

Chars 256..767



Chars 768..1023



SYSTEM.RELOC

VIRTUAL		DISK1		DISK2		DISK3		DISK4		DISK5	
0	1	0	1	0	1	0	1	0	1	0	1
2	85	2	85								
86	132			2	48	2	48	2	48	2	48
133	141	86	94								
142	152	95	105	49	59	49	59	49	59	49	59
153	158	106	111								
159	181			60	82	60	82	60	82	60	82
182	200	112	130	83	101	83	101	83	101	83	101
201	208	131	138								
209	224			102	117	102	117	102	117	102	117
225	227	139	141	118	120	118	120	118	120	118	120
228	229	142	143	121	122	121	122	121	122		
230	230	144	144	123	123	123	123	123	123	121	121
231	232	145	146	124	125	124	125	124	125		
233	233	147	147	126	126	126	126	126	126	122	122
234	234	148	148	127	127	127	127	127	127		
235	235	149	149	128	128	128	128				
236	236	150	150			129	129	128	128		
237	237	151	151	129	129	130	130	129	129	123	123
238	238	152	152	130	130						
239	239	153	153	131	131			130	130		
240	240	154	154	132	132					124	124
241	241			133	133			131	131		
242	243			134	135	131	132				
244	244			136	136						
245	245										
246	249	155	158								
250	251										
252	253									125	126
254	265							132	143		
266	269									127	130
270	271										
272	275							144	147		
276	276							148	148	131	131
277	277					133	133			132	132
278	278							149	149		
279	280										
281	282			137	138						
283	285										
286	292			139	145	134	140	150	156	133	139
293	299	159	165	146	152	141	147	157	163	140	146
300	300			153	153						
301	313	166	178	154	166	148	160	164	176	147	159
314	314	179	179								
315	315	180	180							160	160
316	339	181	204	167	190	161	184	177	200	161	184
340	352			191	203						
353	356	205	208	204	207	185	188	201	204	185	188
357	357					189	189	205	205		
358	360							206	208		
361	361					190	190	209	209		
362	362							210	210	189	189
363	367							211	215		
368	368			208	208	191	191	216	216		

	369	369			209	209			217	217		
	370	370			210	210	192	192	218	218		
	371	371	209	209	211	211	193	193	219	219	190	190
	372	380									191	199
	381	381					194	194			200	200
	382	382					195	195				
	383	383					196	196			201	201
	384	385									202	203
	386	387					197	198			204	205
	388	403									206	221
	404	406	210	212	212	214	199	201	220	222	222	224
	407	407			215	215	202	202				
	408	408	213	213	216	216	203	203	223	223	225	225
	409	414	214	219								
	415	415			217	217			224	224	226	226
	416	416			218	218	204	204				
	417	417					205	205				
	418	418			219	219	206	206	225	225	227	227
	419	419			220	220			226	226	228	228
	420	420			221	221						
	421	421			222	222			227	227	229	229
	422	437			223	238						
	438	438			239	239	207	207				
	439	460					208	229				
	461	461			240	240	230	230	228	228	230	230
	462	466			241	245						
	467	467			246	246	231	231				
	468	481					232	245				
	482	482			247	247	246	246				
	483	487			248	252						
	488	488			253	253	247	247				
	489	489					248	248				
	490	490					249	249	229	229		
	491	504							230	243		
	505	507							244	246	231	233
	508	509									234	235
	510	511					250	251			236	237
	512	513							247	248		
	514	523					252	261				
	524	533			254	263						
	534	535									238	239
	536	537							249	250		
	538	539									240	241
	540	541					262	263				
	542	549			264	271	264	271	251	258	242	249
	550	555	220	225	272	277	272	277	259	264	250	255

In the first part of 200.MONSTERS are 24 bit mapped pics of the monsters.

There are many more pics in the file(see below). 60 Blocks and 2 "pics" per block with some gaps.

```
MONSTERS: PACKED ARRAY[ 0..23] OF
```

```
    PACKED RECORD
```

```
        PICS:          PACKED ARRAY[ 0..4] OF PACKED ARRAY[ 0..5] OF
                        PACKED ARRAY[ 0..7] OF 0..255;
```

```
        PAD :          PACKED ARRAY[ 0..15] OF 0..255;
```

```
    END;
```

24 monsters

5 rows per monster

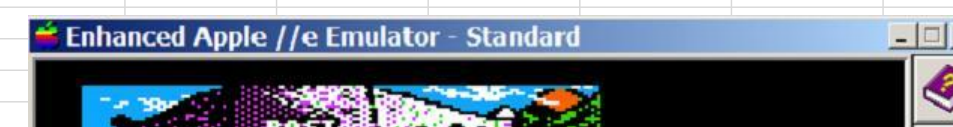
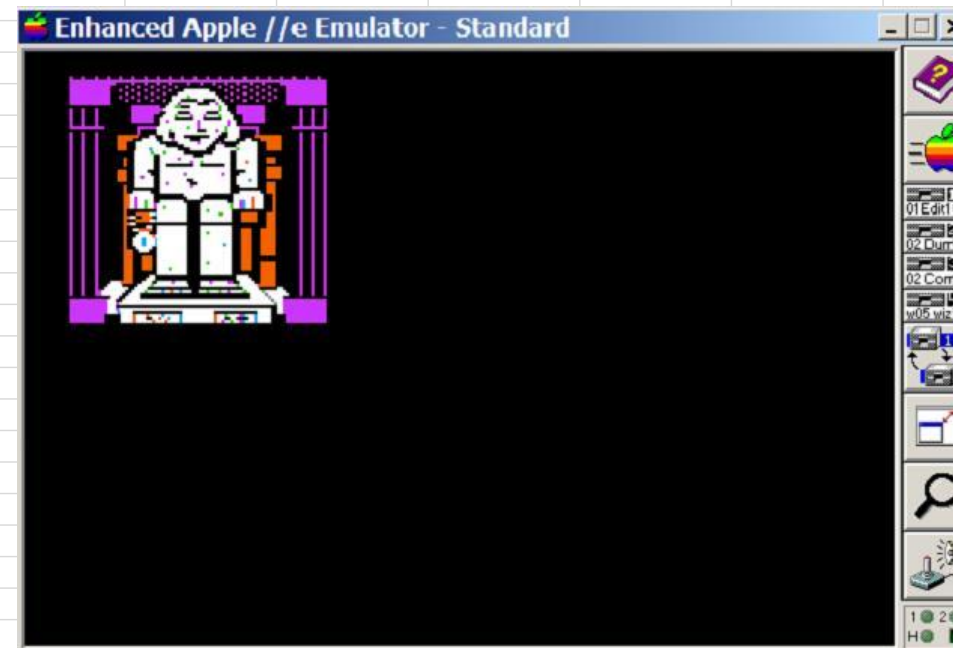
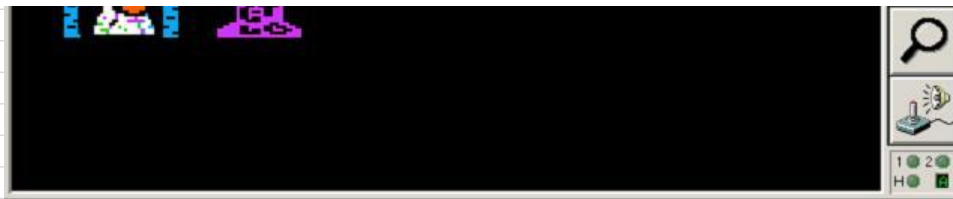
6 columns per monster

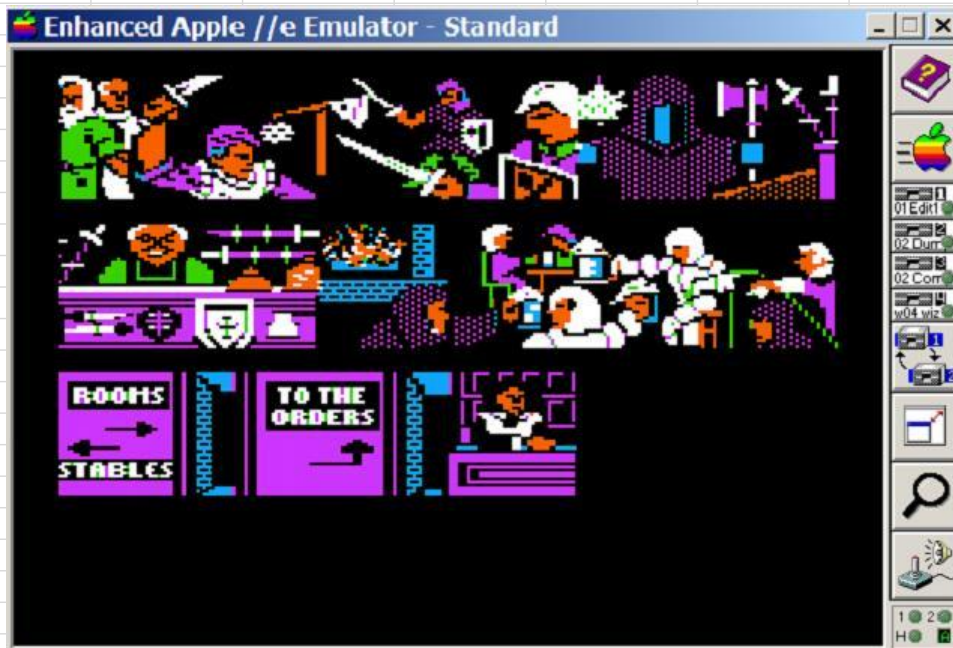
8 bytes per hi-res "box"

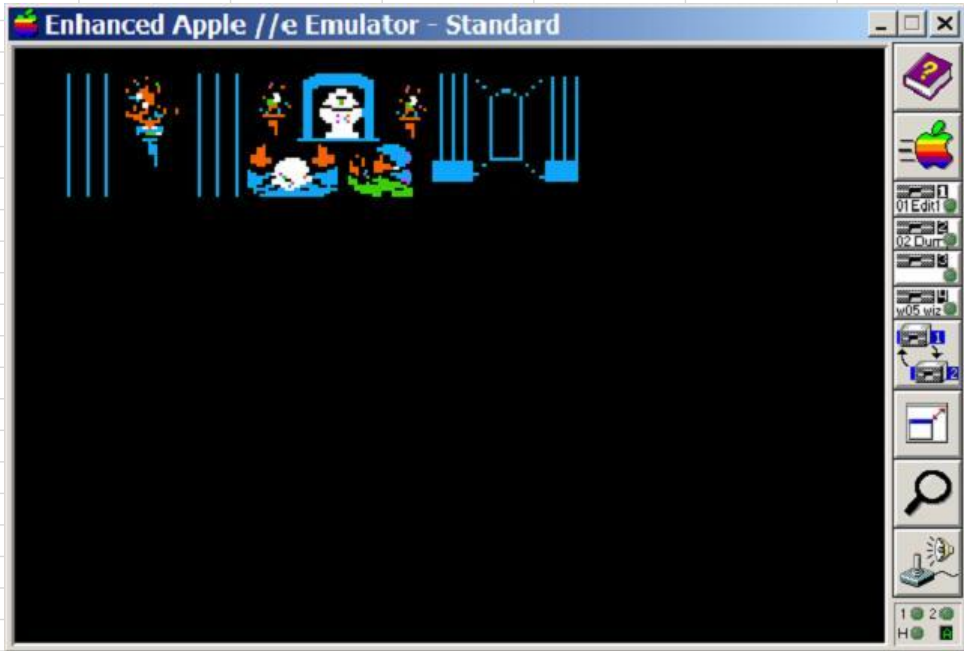
Each byte has value 0 to 255.

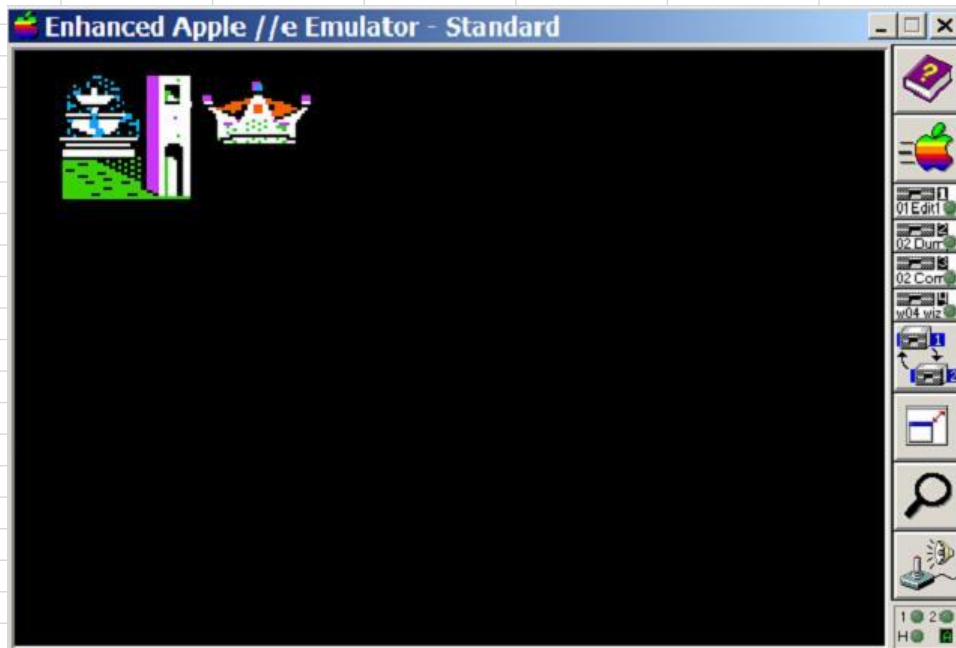
Each monster occupies 30 hi-res "boxes". 6 across and 5 down. Each box has 8 values representing 8 x 7 dots on the screen.











0856-	4F	???				
0857-	4D 20 41	EOR	\$4120			
085A-	4E 4F 54	LSR	\$544F			
085D-	48	PHA				
085E-	45 52	EOR	\$52			
0860-	20 44 49	JSR	\$4944			
0863-	53	???				
0864-	4B	???				
0865-	45 54	EOR	\$54			
0867-	54	???				
0868-	45 00	EOR	\$00			

086A-	43	???	"CAN NOT RUN THE PROGRAM!"			
086B-	41 4E	EOR	(\$4E,X)			
086D-	20 4E 4F	JSR	\$4F4E			
0870-	54	???				
0871-	20 52 55	JSR	\$5552			
0874-	4E 20 54	LSR	\$5420			
0877-	48	PHA				
0878-	45 20	EOR	\$20			
087A-	50 52	BVC	\$08CE			
087C-	4F	???				
087D-	47	???				
087E-	52	???				
087F-	41 4D	EOR	(\$4D,X)			
0881-	21 00	AND	(\$00,X)			

0883-	57	???	"WIZARDRY REQUIRES 64 K-BYTES MEMORY"			
0884-	49 5A	EOR	#\$5A			
0886-	41 52	EOR	(\$52,X)			
0888-	44	???				
0889-	52	???				
088A-	59 20 52	EOR	\$5220,Y			
088D-	45 51	EOR	\$51			
088F-	55 49	EOR	\$49,X			
0891-	52	???				
0892-	45 53	EOR	\$53			
0894-	20 36 34	JSR	\$3436			
0897-	20 4B 2D	JSR	\$2D4B			
089A-	42	???				
089B-	59 54 45	EOR	\$4554,Y			
089E-	53	???				
089F-	20 4D 45	JSR	\$454D			
08A2-	4D 4F 52	EOR	\$524F			
08A5-	59 00					

	A0	EOR	\$A000,Y			
08A8-	00	BRK				

08A7-	A0 00	LDY	#\$00	"CAN NOT RUN THE PROGRAM!"		
08A9-	B9 6A 08	LDA	\$086A,Y			

08AC-	F0 08	BEQ	\$08B6				
08AE-	09 80	ORA	#\$80				
08B0-	99 88 04	STA	\$0488,Y				
08B3-	C8	INY					
08B4-	D0 F3	BNE	\$08A9				
08B6-	A0 00	LDY	#\$00	"WIZARDRY REQUIRES 64 K-BYTES MEMORY"			
08B8-	B9 83 08	LDA	\$0883,Y				
08BB-	F0 08	BEQ	\$08C5				
08BD-	09 80	ORA	#\$80				
08BF-	99 03 05	STA	\$0503,Y				
08C2-	C8	INY					
08C3-	D0 F3	BNE	\$08B8				
08C5-	A6 2B	LDX	\$2B				
08C7-	BD 88 C0	LDA	\$(088,X	Turn drive off			
08CA-	4C CA 08	JMP	\$08CA	Infinite loop			

After first 12 sectors read							
08CD-	A2 00	LDX	#\$00				
08CF-	AD B3 FB	LDA	\$(B3,FB	Type of APPLE			
08D2-	C9 06	CMP	#\$06	IIE?			
08D4-	D0 14	BNE	\$(08EA	No, \$(08EA (II, II+)			
08D6-	E8	INX					
08D7-	AD C0 FB	LDA	\$(C0,FB	IIC?			
08DA-	F0 0C	BEQ	\$(08E8	Yes, \$(08E8 (IIC)			
08DC-	C9 EA	CMP	\$(EA	IIE vanilla?			
08DE-	F0 0A	BEQ	\$(08EA	Yes, \$(EA (IIE)			
08E0-	38	SEC		No, IIE enhanced, IIE Option Card, or newer			
08E1-	20 1F FE	JSR	\$(FE,1F	Newer?			
08E4-	B0 03	BCS	\$(08E9	No, \$(E9			
08E6-	A2 42	LDX	\$(42	Yes (IIGS)			
08E8-	E8	INX					
08E9-	E8	INX					

X identifies Apple:							
0: II, II+							
1: IIE							
2: IIE enhanced or IIE Option Card							
3: IIC							
44: IIGS (?)							
08EA-	8A	TXA					
08EB-	2C 61 C0	BIT	\$(C0,61,2C	(Open Apple key?) (Enhanced keyboard?)			
08EE-	10 0B	BPL	\$(08FB	Not pressed, \$(08FB (JMP taken APPLEWIN)			
08F0-	2C 62 C0	BIT	\$(C0,62,2C	(Closed Apple key?)			
08F3-	10 06	BPL	\$(08FB	Not pressed, \$(08FB			
08F5-	A5 FE	LDA	\$(FE	BOTH Apple Keys pressed? (?)			
Small bug(?) \$(FE not previously init'd (!?)							
08F7-	09 80	ORA	#\$80	(could also be both BUTTONs on Paddles (??)			
08F9-	85 FE	STA	\$(FE	\$(FE (high bit) = ???			
08FB-	85 FE	STA	\$(FE	\$(FE (01 or 02 in AppleWin, +high bit)			

08FD-	AD 83 C0	LDA	\$(C0,83,AD	\$(D000-\$(DFFF, Bank 2			

0900-	AD 83 C0	LDA	\$C083	Write Enable			

0903-	A9 DE	LDA	#\$DE				
0905-	8D 00 D0	STA	\$D000				
0908-	A2 BC	LDX	#\$BC				
090A-	8E 00 E0	STX	\$E000				
090D-	CD 00 D0	CMP	\$D000	Check memory			
0910-	D0 95	BNE	\$08A7	Error, give bad news			
0912-	EC 00 E0	CPX	\$E000	Check memory			
0915-	D0 90	BNE	\$08A7	Error, give bad news			

0917-	AD 82 C0	LDA	\$C082	Enable ROM, Write protect RAM			

091A-	A9 30	LDA	#\$30	\$CA.CB := \$0830	"SYSTEM.INTERP"		
091C-	85 CA	STA	\$CA				
091E-	A9 08	LDA	#\$08				
0920-	85 CB	STA	\$CB				
0922-	A9 00	LDA	#\$00	\$C8.C9 := \$0C00	Pascal Directory		
0924-	85 C8	STA	\$C8				
0926-	A9 0C	LDA	#\$0C				
0928-	85 C9	STA	\$C9				
092A-	A0 10	LDY	#\$10				
092C-	B1 C8	LDA	(\$C8),Y	Directory File Count			
092E-	AA	TAX					
092F-	10 0B	BPL	\$093C	Advance \$C8.C9 by #\$1A, and DEX			
0931-	A0 05	LDY	#\$05	Search directory for "SYSTEM.INTERP"			
0933-	C8	INY					
0934-	B1 CA	LDA	(\$CA),Y				
0936-	F0 29	BEQ	\$0961	Found "SYSTEM.INTERP", GOTO \$0961			
0938-	D1 C8	CMP	(\$C8),Y				
093A-	F0 F7	BEQ	\$0933				
093C-	18	CLC		Advance \$C8.C9 by #\$1A, and DEX			
093D-	A5 C8	LDA	\$C8	#\$1A is directory entry length			
093F-	69 1A	ADC	#\$1A	i.e., advance to next entry in DIR			
0941-	85 C8	STA	\$C8				
0943-	90 02	BCC	\$0947				
0945-	E6 C9	INC	\$C9				
0947-	CA	DEX					
0948-	10 E7	BPL	\$0931	JMP \$0931			

094A-	A0 00	LDY	#\$00	"PLEASE RESTART FROM ANOTHER DISKETTE"			
094C-	B9 45 08	LDA	\$0845,Y				
094F-	F0 08	BEQ	\$0959				
0951-	09 80	ORA	#\$80				
0953-	99 82 04	STA	\$0482,Y				
0956-	C8	INY					
0957-	D0 F3	BNE	\$094C				
0959-	A6 2B	LDX	\$2B				

095B-	BD 88 C0	LDA	\$C088,X	Motor Off			
095E-	4C 5E 09	JMP	\$095E	Infinite Loop			

To here after finding "SYSTEM.INTERP" in the Directory							
0961-	A0 00	LDY	#\$00	First Block of SYSTEM.INTERP			
0963-	B1 C8	LDA	(\$C8),Y				
0965-	AA	TAX		Block (Track/Sector) to read			
0966-	18	CLC		\$F4.F5 := First Block + #\$18 =			
0967-	69 18	ADC	#\$18	INTERP Last Block			
0969-	85 F4	STA	\$F4	Hard-coded, 24 blocks = 48 sectors			
096B-	C8	INY		for \$D000..\$FFFF			
096C-	B1 C8	LDA	(\$C8),Y	\$F4.F5 is transferred to \$34.35 at			
096E-	A8	TAY		start of INTERP			
096F-	69 00	ADC	#\$00				
0971-	85 F5	STA	\$F5	\$F4.F5 := First Block + #\$18 = Last Block			
0973-	98	TYA		Test "length" of file SYSTEM.INTERP			
0974-	4A	LSR		Too big?			
0975-	D0 D3	BNE	\$094A	Yes, Error, give bad news			
0977-	88	DEY		DEY (???)			
0978-	8A	TXA		First Block (T/S) of SYSTEM.INTERP			
0979-	6A	ROR					
097A-	4A	LSR					
097B-	29 FE	AND	#\$FE				
097D-	85 5A	STA	\$5A	Desired track (in 1/2 track inc (?))			
097F-	8A	TXA					
0980-	29 07	AND	#\$07				
0982-	0A	ASL					
0983-	8D 35 08	STA	\$0835	Sector to read			
0986-	A2 30	LDX	#\$30	Hard-coded (\$D000..\$FFFF)			
0988-	86 47	STX	\$47	\$47 := #\$30 # of sectors to read			
098A-	A9 00	LDA	#\$00				
098C-	8D 78 04	STA	\$0478	Current Track			
098F-	A9 EF	LDA	#\$EF	#EFD8 motor on time			
0991-	85 59	STA	\$59				
0993-	A9 D8	LDA	#\$D8				
0995-	85 58	STA	\$58				
0997-	20 5C 0B	JSR	\$0B5C	SEEKABS (\$5A = Desired Track in 1/2 track inc)			
099A-	AD 78 04	LDA	\$0478				
099D-	4A	LSR					
099E-	85 41	STA	\$41	Track # (for \$C65C)			
09A0-	A9 56	LDA	#\$56				
09A2-	20 A8 FC	JSR	\$FCA8	Wait			
09A5-	AD 35 08	LDA	\$0835	Sector to read			
09A8-	C9 08	CMP	#\$08	Pascal interleave			
09AA-	90 02	BCC	\$09AE				
09AC-	E9 08	SBC	#\$08				
09AE-	2A	ROL					

0A02-	9D B8 03	STA	\$03B8,X	\$47E for Slot 6 boot (Scratchpad for slot 6)	
0A05-	A9 00	LDA	#\$00		
0A07-	85 FA	STA	\$FA	FA := 0	
0A09-	8D 75 FC	STA	\$FC75	FC75 := 0	
0A0C-	A5 FB	LDA	\$FB	Slot# * 16 (Boot device, e.g., \$60)	
0A0E-	8D 67 FC	STA	\$FC67	FC67 := Boot slot * 16	
0A11-	A9 DE	LDA	#\$DE		
0A13-	85 F6	STA	\$F6	F6 := #\$DE \$BCDE	
0A15-	A9 BC	LDA	#\$BC		
0A17-	85 F7	STA	\$F7	F7 := #\$BC	

0A19-	AD 80 C0	LDA	\$C080	Select 2nd Bank, Write Protect, Read RAM	

0A1C-	4C 00 D0	JMP	\$D000	Start executing SYSTEM.INTERP	

				A1F..AC3 moved to \$40..E4	
				in each AUX z-page (see \$0B1C).	
				See \$E9D8 and \$0CB0 for JSR \$0040.	
				Y = AUX bank section (03, 04, or 01)	
				03 = \$D000..DFFF, Bank 1	
				04 = \$D000..FFFF, Bank 2	
				01 = \$0200..BFFF	
				X = 00 (Read AUX) or 01 (Write AUX)	
				\$E985, \$E988, \$E994, or \$E9A0	
				\$0CAA.0CAB	
				DEST (Read) / SRC (Write)	
				\$0CAE.0CAF	
				SRC (Read) / DEST (Write)	
				\$0CAC.0CAD	
				Length in bytes	
				[\$0040]	
0A1F-	EA	NOB			
0A20-	C0 03	CPY	#\$03		
0A22-	90 10	BCC	\$0A34	Y = 01? Yes, \$0A34 (\$0055)	
0A24-	D0 08	BNE	\$0A2E	\$0200..\$BFFF (\$5F blocks)	
				Y = 03	
				\$C000..\$CFFF (08 blocks)	
0A26-	AD 8B C0	LDA	\$C08B	Read/Write RAM, Bank 1	
0A29-	AD 8B C0	LDA	\$C08B	Read/Write RAM, Bank 1	
0A2C-	B0 06	BCS	\$0A34	Branch always to 0A34	
				Y = 04	
				\$D000..\$FFFF (\$18 blocks)	
0A2E-	AD 83 C0	LDA	\$C083	Read/Write RAM, Bank 2	
0A31-	AD 83 C0	LDA	\$C083	Read/Write RAM, Bank 2	

0A78-	8C 03 C0	STY	\$C003	Read AUX Memory			
0A7B-	F0 0E	BEQ	\$0A8B				
0A7D-	88	DEY					
0A7E-	F0 07	BEQ	\$0A87				
0A80-	B1 20	LDA	(\$20),Y	From: \$20.21 -->			
0A82-	91 22	STA	(\$22),Y	To: \$22.23 -->			
0A84-	88	DEY					
0A85-	D0 F9	BNE	\$0A80				
0A87-	B1 20	LDA	(\$20),Y				
0A89-	91 22	STA	(\$22),Y				
0A8B-	88	DEY					
0A8C-	C6 21	DEC	\$21				
0A8E-	C6 23	DEC	\$23				
0A90-	CA	DEX		X := X - 1			
0A91-	D0 ED	BNE	\$0A80				
0A93-	F0 D6	BEQ	\$0A6B	JMP DONE			

AUX RAM STUFF							
(see \$0ACD, FE=01 or 02, Apple IIe or Enhanced)							
Check for AUX RAM							
Return: Carry = 1 NOT FOUND							
0 FOUND							
See Extended 80-Column Text Card Supplement.pdf							
for description of \$800 same as \$C00.							
"Sparse memory mapping". See p. 36 - 39.							
[\$00]							
0A95-	8D 05 C0	STA	\$C005	Write Aux Memory			
0A98-	8D 03 C0	STA	\$C003	Read Aux Memory			
0A9B-	A9 EE	LDA	#\$EE				
0A9D-	8D 00 08	STA	\$0800	Write to \$0800 (could be \$0C00)			
0AA0-	8D 80 05	STA	\$0580	Write to \$0580 (primary text screen)			
0AA3-	AC 00 0C	LDY	\$0C00	Read from \$0C00 (could be \$0800 address)			
0AA6-	8C 81 05	STY	\$0581	Write to \$0581 (primary text screen)			
0AA9-	CD 00 0C	CMP	\$0C00	Sparse memory mapping? (\$0C00 same as \$0800)			
0AAC-	D0 0E	BNE	\$0ABC	No, \$0ABC (Aux Memory Exists, not just 1K)			
[\$19]							
0AAE-	0E 00 0C	ASL	\$0C00	Change \$0C00 in Aux Memory, and SEC			
0AB1-	AD 00 08	LDA	\$0800	A := #\$EE from Second Text Page in Aux Memory			
0AB4-	8D 00 06	STA	\$0600	Write #\$EE to Primary Text Screen			
0AB7-	CD 00 0C	CMP	\$0C00	Compare with \$0C00 (#\$EE or changed?)			
0ABA-	F0 01	BEQ	\$0ABD	if = now, then Aux Memory doesnt exist (C = 1)			
0ABC-	18	CIC					
0ABD-	8D 04 C0	STA	\$C004	Write Main Memory			
0AC0-	8D 02 C0	STA	\$C002	Read Main Memory			
[\$2E]							
0AC3-	60	RTS		RTS			

					\$FE = 01 for IIE
0AC4-	A6 FE	LDX	\$FE		\$FE = 02 for Enhanced IIE
0AC6-	D0 05	BNE	\$0ACD		\$FE > 0? Yes, 0ACD
0AC8-	A2 00	LDX	#\$00		FE = 00?
0ACA-	4C 4B 0B	JMP	\$0B4B		Yes, \$0B4B (No Aux memory)

0ACD-	78	SEI			Apple IIE or Enhanced IIE
0ACE-	A2 2F	LDX	#\$2F		
0AD0-	BD 95 0A	LDA	\$0A95,X		Move code from \$0A95..0AC3 to \$00..\$2E
0AD3-	95 00	STA	\$00,X		
0AD5-	CA	DEX			
0AD6-	10 F8	BPL	\$0AD0		
0AD8-	20 00 00	JSR	\$0000		Execute code moved to \$00.\$2E
0ADB-	B0 EB	BCS	\$0AC8		If no Aux memory GOTO \$0AC8

	These references have code almost identical to Wizardry IV code:				
	http://apple2online.com/web_documents/ae_z-ram_ii_user_s_manual.pdf				
	http://www.apple-iigs.info/doc/fichiers/ramworks3.pdf				
	RamWorks RAM uses C073 exclusively where others act on \$C07x (any in range).				

	Find all valid auxiliary memory banks				
0ADD-	8D 09 C0	STA	\$C009		Use Aux Memory \$00..\$1FF (zpage, stack, \$D000)
0AE0-	A0 7F	LDY	#\$7F		Write "bank number" to each bank
0AE2-	8C 73 C0	STY	\$C073		Select bank #Y
0AE5-	84 00	STY	\$00		Save bank# in the bank
0AE7-	98	TYA			
0AE8-	49 FF	EOR	#\$FF		
0AEA-	85 01	STA	\$01		Store another self-check byte
0AEC-	88	DEY			
0AED-	10 F3	BPL	\$0AE2		

0AEF-	A9 00	LDA	#\$00		Read "bank number" from each bank
0AF1-	A8	TAX			Y := 0, then 1, 2, 3, ...
0AF2-	AA	TAX			X := 0, then 3, 6, 9, ...

0AF3-	8C 73 C0	STY	\$C073		FindThem Select bank #Y
0AF6-	C4 00	CPY	\$00		
0AF8-	D0 35	BNE	\$0B2F		Check bank number, BNE to NotOne
0AFA-	98	TYA			
0AFB-	49 FF	EOR	#\$FF		
0AFD-	C5 01	CMP	\$01		Check another self-check byte
0AFF-	D0 2E	BNE	\$0B2F		BNE to NotOne

	Found a valid bank!				
0B01-	98	TYA			A := bank number

0B02-	9D 00 02	STA	\$0200,X	200: AA AA AA BB BB BB CC CC CC
0B05-	9D 01 02	STA	\$0201,X	00 00 00 00 (for AppleWin)
0B08-	9D 02 02	STA	\$0202,X	
0B0B-	A9 03	LDA	#\$03	300: 03 04 01 03 04 01 03 04 01 05
0B0D-	9D 00 03	STA	\$0300,X	03 04 01 05 (for AppleWin)
0B10-	A9 04	LDA	#\$04	
0B12-	9D 01 03	STA	\$0301,X	
0B15-	A9 01	LDA	#\$01	
0B17-	9D 02 03	STA	\$0302,X	
0B1A-	8A	TXA		Save index to store next found bank
0B1B-	48	PHA		
0B1C-	A2 A5	LDX	#\$A5	xfer code from A1F..AC3 to \$40..E4
0B1E-	BD 1E 0A	LDA	\$(A1E,X	(in this Aux Mem bank's z-page)
0B21-	95 3F	STA	\$(3F,X	
0B23-	CA	DEX		
0B24-	D0 F8	BNE	\$(B1E	
0B26-	68	PLA		Restore index for next found bank
0B27-	18	CLC		Increment to next possible 64K bank
0B28-	69 03	ADC	#\$03	
0B2A-	AA	TAX		
0B2B-	E0 40	CPX	\$(40	Max of 64 x 64K banks
0B2D-	B0 03	BCS	\$(B32	Too many? Yes, 0B32, else find another one
				NotOne:
0B2F-	C8	INY		Next bank #
0B30-	10 C1	BPL	\$(AF3	Try to find it

0B32-	A9 00	LDA	\$(00	Reset to video bank (Bank #0)
0B34-	8D 73 C0	STA	\$(C73	
0B37-	8D 08 C0	STA	\$(C08	Use Main \$(00..\$1FF (zpage, stack, \$(D000)
0B3A-	8A	TXA		
0B3B-	A8	TAY		
0B3C-	B9 00 03	LDA	\$(300,Y	Transfer bank information to
0B3F-	99 E4 FB	STA	\$(FBE4,Y	\$(FBE4 table
0B42-	B9 00 02	LDA	\$(200,Y	\$(FC24 table
0B45-	99 24 FC	STA	\$(FC24,Y	For AppleWin IIe there is 1 bank (Y = 3)
0B48-	88	DEY		
0B49-	10 F1	BPL	\$(B3C	
0B4B-	86 FC	STX	\$(FC	X = 3 * num of banks (X could be 0)
0B4D-	A9 05	LDA	\$(05	end sentinel
0B4F-	9D E4 FB	STA	\$(FBE4,X	
0B52-	A9 00	LDA	\$(00	
0B54-	9D 24 FC	STA	\$(FC24,X	
0B57-	60	RTS		RTS to \$(9FD
				For AppleWin and IIe:
				FBE4: 03 04 01 05

0BA4-	20 B7 0B	JSR	\$0BB7	MSWAIT			
0BA7-	18	CLC		C=0 === Phase Off and RTS back			
0BA8-	AD 78 04	LDA	\$0478	Track (1/2 track for phasing)			
0BAB-	29 03	AND	#\$03				
0BAD-	2A	ROL					
0BAE-	05 2B	ORA	\$2B				
0BB0-	AA	TAX					
0BB1-	BD 80 C0	LDA	\$C080,X	Phase (0, 1, 2, 3) On / Off			
0BB4-	A6 2B	LDX	\$2B				
0BB6-	60	RTS					
0BB7-	A2 11	LDX	#\$11	Arm Move Delay			
0BB9-	CA	DEX					
0BBA-	D0 FD	BNE	\$0BB9				
0BBC-	E6 49	INC	\$49				
0BBE-	D0 02	BNE	\$0BC2				
0BC0-	E6 48	INC	\$48				
0BC2-	38	SEC					
0BC3-	E9 01	SBC	#\$01				
0BC5-	D0 F0	BNE	\$0BB7				
0BC7-	60	RTS					
0BC8-	01 30	ORA	(\$30,X)	Arm Move Delay Table			
0BCA-	28	PLP					
0BCB-	24 20	BIT	\$20				
0BCD-	1E 1D 1C	ASL	\$1C1D,X				
0BD0-	1C	???					
0BD1-	1C	???					
0BD2-	1C	???					
0BD3-	1C	???					
0BD4-	70 2C	BVS	\$0C02				
0BD6-	26 22	ROL	\$22				
0BD8-	1F	???					
0BD9-	1E 1D 1C	ASL	\$1C1D,X				
0BDC-	1C	???					
0BDD-	1C	???					
0BDE-	1C	???					
0BDF-	1C	???					
0BE0-	31 32	AND	(\$32),Y				
0BE2-	2F	???					
0BE3-	32	???					
0BE4-	32	???					
0BE5-	2F	???					
0BE6-	38	SEC					
0BE7-	37	???					
0BE8-	30 30	BMI	\$0C1A				
0BEA-	30 30	BMI	\$0C1C				
0BEC-	30 30	BMI	\$0C1E				
0BEE-	34	???					

	0C2E-	40		RTI				
	0C2F-	B2		???				
	0C30-	00		BRK				
	0C31-	02		???				
	0C32-	0A		ASL				
	0C33-	AF		???				
	0C34-	0A		ASL				
	0C35-	00		BRK				
	0C36-	24 00		BIT	\$00			
	0C38-	02		???				
	0C39-	00		BRK				
	0C3A-	0D 53 59		ORA	\$5953		"SYSTEM.INTERP"	
	0C3D-	53		???				
	0C3E-	54		???				
	0C3F-	45 4D		EOR	\$4D			
	0C41-	2E 49 4E		ROL	\$4E49			
	0C44-	54		???				
	0C45-	45 52		EOR	\$52			
	0C47-	50 40		BVC	\$0C89			
	0C49-	B2		???				
	0C4A-	00		BRK				
	0C4B-	02		???				
	0C4C-	CB		???				
	0C4D-	AE						
		24 00		LDX	\$0024			
	0C50-	2C 00 05		BIT	\$0500			
	0C53-	00		BRK				
	0C54-	0B		???				
	0C55-	32		???			"200.CHARSET"	
	0C56-	30 30		BMI	\$0C88			
	0C58-	2E 43 48		ROL	\$4843			
	0C5B-	41 52		EOR	(\$52,X)			
	0C5D-	53		???				
	0C5E-	45 54		EOR	\$54			
	0C60-	00		BRK				
	0C61-	00		BRK				
	0C62-	40		RTI				
	0C63-	B2		???				
	0C64-	00		BRK				
	0C65-	02		???				
	0C66-	A9 AF		LDA	#\$AF			
	0C68-	2C 00 44		BIT	\$4400			
	0C6B-	00		BRK				
	0C6C-	05 00		ORA	\$00			
	0C6E-	0B		???				
	0C6F-	57		???				
	0C70-	45 52		EOR	\$52			
	0C72-	44		???				
	0C73-	4E 41 2E		LSR	\$2E41			

	0C76-	44	???				
	0C77-	41 54	EOR	(\$54,X)			
	0C79-	41 00	EOR	(\$00,X)			
	0C7B-	00	BRK				
	0C7C-	40	RTI				
	0C7D-	B2	???				
	0C7E-	00	BRK				
	0C7F-	02	???				
	0C80-	19 AF 44	ORA	\$44AF,Y			
	0C83-	00	BRK				
	0C84-	46 00	LSR	\$00			
	0C86-	05 00	ORA	\$00			
	0C88-	0B	???				
	0C89-	4B	???				
	0C8A-	41 4E	EOR	(\$4E,X)			
	0C8C-	41 2E	EOR	(\$2E,X)			
	0C8E-	4B	???				
	0C8F-	45 59	EOR	\$59			
	0C91-	4D 41 50	EOR	\$5041			
	0C94-	00	BRK				
	0C95-	00	BRK				
	0C96-	40	RTI				
	0C97-	B2	???				
	0C98-	00	BRK				
	0C99-	02	???				
	0C9A-	F5 AE	SBC	\$AE,X			
	0C9C-	46 00	LSR	\$00			
	0C9E-	E2	???				
	0C9F-	00	BRK				
	0CA0-	02	???				
	0CA1-	00	BRK				
	0CA2-	0D 53 59	ORA	\$5953			
	0CA5-	53	???				
	0CA6-	54	???				
	0CA7-	45 4D	EOR	\$4D			
	0CA9-	2E 50 41	ROL	\$4150			
	0CAC-	53	???				
	0CAD-	43	???				
	0CAE-	41 4C	EOR	(\$4C,X)			
	0CB0-	40	RTI				
	0CB1-	B2	???				
	0CB2-	00	BRK				
	0CB3-	02	???				
	0CB4-	BB	???				
	0CB5-	AE E2 00	LDX	\$00E2			
	0CB8-	1E 01 05	ASL	\$0501,X			
	0CBB-	00	BRK				
	0CBC-	0C	???				
	0CBD-	32	???				
	0CBE-	30 30	BMI	\$0CF0			
	0CC0-	2E 4D 4F	ROL	\$4F4D			

	0CC3-	4E 53 54	LSR	\$5453				
	0CC6-	45 52	EOR	\$52				
	0CC8-	53	???					
	0CC9-	00	BRK					
	0CCA-	40	RTI					
	0CCB-	B2	???					
	0CCC-	00	BRK					
	0CCD-	02	???					
	0CCE-	7B	???					
	0CCF-	A8	TAY					
	0CD0-	1E 01 25	ASL	\$2501,X				
	0CD3-	01 04	ORA	(\$04,X)				
	0CD5-	00	BRK					
	0CD6-	09 4D	ORA	#\$4D				
	0CD8-	41 5A	EOR	(\$5A,X)				
	0CDA-	45 2E	EOR	\$2E				
	0CDC-	49 4E	EOR	#\$4E				
	0CDE-	46 4F	LSR	\$4F				
	0CE0-	72	???					
	0CE1-	87	???					
	0CE2-	00	BRK					
	0CE3-	00	BRK					
	0CE4-	40	RTI					
	0CE5-	B2	???					
	0CE6-	00	BRK					
	0CE7-	02	???					
	0CE8-	7B	???					
	0CE9-	A8	TAY					
	0CEA-	25 01	AND	\$01				
	0CEC-	9B	???					
	0CED-	01 05	ORA	(\$05,X)				
	0CEF-	00	BRK					
	0CF0-	09 41	ORA	#\$41				
	0CF2-	53	???					
	0CF3-	43	???					
	0CF4-	49 49	EOR	#\$49				
	0CF6-	2E 4B 52	ROL	\$524B				
	0CF9-	4E 72 87	LSR	\$8772				
	0CFC-	00	BRK					
	0CFD-	00	BRK					
	0CFE-	40	RTI					
	0CFF-	B2	???					
	0D00-	00	BRK					
	0D01-	02	???					
	0D02-	BB	???					
	0D03-	AE 9B 01	LDX	\$019B				
	0D06-	9D 01 05	STA	\$0501,X				
	0D09-	00	BRK					
	0D0A-	0A	ASL					
	0D0B-	41 53	EOR	(\$53,X)				
	0D0D-	43	???					

	0D0E-	49 49	EOR	#\$49			
	0D10-	2E 48 55	ROL	\$5548			
	0D13-	46 46	LSR	\$46			
	0D15-	87	???				
	0D16-	00	BRK				
	0D17-	00	BRK				
	0D18-	40	RTI				
	0D19-	B2	???				
	0D1A-	00	BRK				
	0D1B-	02	???				
	0D1C-	BB	???				
	0D1D-	AE 9D 01	LDX	\$019D			
	0D20-	2D 02 05	AND	\$0502			
	0D23-	00	BRK				
	0D24-	0D 53 43	ORA	\$4353			
	0D27-	45 4E	EOR	\$4E			
	0D29-	41 52	EOR	(\$52, X)			
	0D2B-	49 4F	EOR	#\$4F			
	0D2D-	2E 44 41	ROL	\$4144			
	0D30-	54	???				
	0D31-	41 40	EOR	(\$40, X)			
	0D33-	B2	???				
	0D34-	00	BRK				
	0D35-	02	???				
	0D36-	BB	???				
	0D37-	AE 2D 02	LDX	\$022D			
	0D3A-	31 02	AND	(\$02), Y			
	0D3C-	05 00	ORA	\$00			
	0D3E-	0A	ASL				
	0D3F-	41 53	EOR	(\$53, X)			
	0D41-	43	???				
	0D42-	49 49	EOR	#\$49			
	0D44-	2E 53 45	ROL	\$4553			
	0D47-	43	???				
	0D48-	53	???				
	0D49-	87	???				
	0D4A-	00	BRK				
	0D4B-	00	BRK				
	0D4C-	40	RTI				
	0D4D-	B2	???				
	0D4E-	00	BRK				
	0D4F-	02	???				
	0D50-	BB	???				
	0D51-	AE 31 02	LDX	\$0231			
	0D54-	3B	???				
	0D55-	02	???				
	0D56-	03	???				
	0D57-	00	BRK				
	0D58-	0C	???				
	0D59-	41 53	EOR	(\$53, X)			
	0D5B-	43	???				

	0D5C-	49 49	EOR	#\$49				
	0D5E-	33	???					
	0D5F-	30 2E	BMI	\$0D8F				
	0D61-	54	???					
	0D62-	45 58	EOR	\$58				
	0D64-	54	???					
	0D65-	00	BRK					
	0D66-	40	RTI					
	0D67-	B2	???					
	0D68-	00	BRK					
	0D69-	02	???					
	0D6A-	7A	???					
	0D6B-	AF	???					
	0D6C-	3B	???					
	0D6D-	02	???					
	0D6E-	40	RTI					
	0D6F-	02	???					
	0D70-	05 00	ORA	\$00				
	0D72-	0B	???					
	0D73-	50 4C	BVC	\$0DC1				
	0D75-	41 59	EOR	(\$59,X)				
	0D77-	45 52	EOR	\$52				
	0D79-	2E 49 4E	ROL	\$4E49				
	0D7C-	46 4F	LSR	\$4F				
	0D7E-	00	BRK					
	0D7F-	00	BRK					
	0D80-	40	RTI					
	0D81-	B2	???					
	0D82-	00	BRK					
	0D83-	02	???					
	0D84-	BB	???					
	0D85-	AE 40 02	LDX	\$0240				
	0D88-	41 02	EOR	(\$02,X)				
	0D8A-	05 00	ORA	\$00				
	0D8C-	08	PHP					
	0D8D-	49 53	EOR	#\$53				
	0D8F-	2E 41 50	ROL	\$5041				
	0D92-	50 4C	BVC	\$0DE0				
	0D94-	45 00	EOR	\$00				
	0D96-	72	???					
	0D97-	87	???					
	0D98-	00	BRK					
	0D99-	00	BRK					
	0D9A-	40	RTI					
	0D9B-	B2	???					
	0D9C-	00	BRK					
	0D9D-	02	???					
	0D9E-	99 AE 41	STA	\$41AE,Y				
	0DA1-	02	???					
	0DA2-	42	???					
	0DA3-	02	???					

	0DA4-	05 00	ORA	\$00				
	0DA6-	08	PHP					
	0DA7-	4C 49 4E	JMP	\$4E49				
	0DAA-	45 53	EOR	\$53				
	0DAC-	2E 32 34	ROL	\$3432				
	0DAF-	00	BRK					
	0DB0-	72	???					
	0DB1-	87	???					
	0DB2-	00	BRK					
	0DB3-	00	BRK					
	0DB4-	40	RTI					
	0DB5-	B2	???					
	0DB6-	00	BRK					
	0DB7-	02	???					
	0DB8-	99 AE 42	STA	\$42AE, Y				
	0DBB-	02	???					
	0DBC-	43	???					
	0DBD-	02	???					
	0DBE-	05 00	ORA	\$00				
	0DC0-	09 48	ORA	#\$48				
	0DC2-	41 53	EOR	(\$53, X)				
	0DC4-	2E 43 41	ROL	\$4143				
	0DC7-	43	???					
	0DC8-	48	PHA					
	0DC9-	45 48	EOR	\$48				
	0DCB-	45 00	EOR	\$00				
	0DCD-	00	BRK					
	0DCE-	40	RTI					
	0DCF-	B2	???					
	0DD0-	00	BRK					
	0DD1-	02	???					
	0DD2-	99 AE 43	STA	\$43AE, Y				
	0DD5-	02	???					
	0DD6-	44	???					
	0DD7-	02	???					
	0DD8-	05 00	ORA	\$00				
	0DDA-	0A	ASL					
	0ddb-	48	PHA					
	0DDC-	41 53	EOR	(\$53, X)				
	0DDE-	2E 53 54	ROL	\$5453				
	0DE1-	52	???					
	0DE2-	4F	???					
	0DE3-	50 53	BVC	\$0E38				
	0DE5-	87	???					
	0DE6-	00	BRK					
	0DE7-	00	BRK					
	0DE8-	40	RTI					
	0DE9-	B2	???					
	0DEA-	00	BRK					
	0DEB-	02	???					
	0DEC-	99 AE 44	STA	\$44AE, Y				

	0DEF-	02	???				
	0DF0-	45 02	EOR	\$02			
	0DF2-	05 00	ORA	\$00			
	0DF4-	0B	???				
	0DF5-	48	PHA				
	0DF6-	41 53	EOR	(\$53,X)			
	0DF8-	2E 4B 52	ROL	\$524B			
	0DFB-	4E 53 52	LSR	\$5253			
	0DFE-	43	???				
	0DFF-	48	PHA				
	0E00-	00	BRK				
	0E01-	00	BRK				
	0E02-	40	RTI				
	0E03-	B2	???				
	0E04-	00	BRK				
	0E05-	02	???				
	0E06-	5A	???				
	0E07-	AE 45 02	LDX	\$0245			
	0E0A-	4D 02 03	EOR	\$0302			
	0E0D-	00	BRK				
	0E0E-	0E 57 45	ASL	\$4557			
	0E11-	52	???				
	0E12-	53	???				
	0E13-	43	???				
	0E14-	52	???				
	0E15-	49 50	EOR	#\$50			
	0E17-	54	???				
	0E18-	2E 54 45	ROL	\$4554			
	0E1B-	58	CLI				
	0E1C-	54	???				
	0E1D-	B2	???				
	0E1E-	00	BRK				
	0E1F-	02	???				
	0E20-	FA	???				
	0E21-	AE 4D 02	LDX	\$024D			
	0E24-	00	BRK				
	0E25-	08	PHP				
	0E26-	05 00	ORA	\$00			
	0E28-	0F	???				
	0E29-	57	???				
	0E2A-	45 52	EOR	\$52			
	0E2C-	44	???				
	0E2D-	4E 41 2E	LSR	\$2E41			
	0E30-	31 31	AND	(\$31),Y			
	0E32-	2E 31 31	ROL	\$3131			
	0E35-	2E 38 37	ROL	\$3738			
	0E38-	00	BRK				
	0E39-	02	???				
	0E3A-	BB	???				
	0E3B-	AE 4D 02	LDX	\$024D			
	0E3E-	00	BRK				

0E3F-	08	PHP				
0E40-	05 00	ORA	\$00			
0E42-	00	BRK				
0E43-	57	???				
0E44-	45 52	EOR	\$52			
0E46-	44	???				
0E47-	4E 41 2E	LSR	\$2E41			
0E4A-	31 31	AND	(\$31), Y			
0E4C-	2E 31 31	ROL	\$3131			
0E4F-	2E 38 37	ROL	\$3738			
0E52-	00	BRK				
0E53-	02	???				
0E54-	BB	???				
0E55-	AE A2 01	LDX	\$01A2			
0E58-	A5 01	LDA	\$01			
0E5A-	02	???				
0E5B-	00	BRK				
0E5C-	0D 53 48	ORA	\$4853			
0E5F-	4F	???				
0E60-	57	???				
0E61-	44	???				
0E62-	49 43	EOR	#\$43			
0E64-	54	???				
0E65-	2E 43 4F	ROL	\$4F43			
0E68-	44	???				
0E69-	45 40	EOR	\$40			
0E6B-	B2	???				
0E6C-	00	BRK				
0E6D-	02	???				
0E6E-	D8	CLD				
0E6F-	AE A5 01	LDX	\$01A5			
0E72-	AD 01 03	LDA	\$0301			
0E75-	00	BRK				
0E76-	0D 53 48	ORA	\$4853			
0E79-	4F	???				
0E7A-	57	???				
0E7B-	44	???				
0E7C-	49 43	EOR	#\$43			
0E7E-	54	???				
0E7F-	2E 54 45	ROL	\$4554			
0E82-	58	CLI				
0E83-	54	???				
0E84-	40	RTI				
0E85-	B2	???				
0E86-	00	BRK				
0E87-	02	???				
0E88-	D8	CLD				
0E89-	AE 00 02	LDX	\$0200			
0E8C-	1E 02 03	ASL	\$0302, X			
0E8F-	00	BRK				
0E90-	0A	ASL				

0E91-	49 50	EOR	#\$50				
0E93-	52	???					
0E94-	4F	???					
0E95-	43	???					
0E96-	2E 54 45	ROL	\$4554				
0E99-	58	CLI					
0E9A-	54	???					
0E9B-	87	???					
0E9C-	00	BRK					
0E9D-	00	BRK					
0E9E-	40	RTI					
0E9F-	B2	???					
0EA0-	00	BRK					
0EA1-	02	???					
0EA2-	5B	???					
0EA3-	AE 1E 02	LDX	\$021E				
0EA6-	38	SEC					
0EA7-	02	???					
0EA8-	02	???					
0EA9-	00	BRK					
0EAA-	0F	???					
0EAB-	4F	???					
0EAC-	4C 44 45	JMP	\$4544				
0EAF-	49 4E	EOR	#\$4E				
0EB1-	54	???					
0EB2-	45 52	EOR	\$52				
0EB4-	50 2E	BVC	\$0EE4				
0EB6-	43	???					
0EB7-	4F	???					
0EB8-	44	???					
0EB9-	45 00	EOR	\$00				
0EBB-	02	???					
0EBC-	5B	???					
0EBD-	AE 38 02	LDX	\$0238				
0EC0-	3C	???					
0EC1-	02	???					
0EC2-	02	???					
0EC3-	00	BRK					
0EC4-	0D 4E 45	ORA	\$454E				
0EC7-	57	???					
0EC8-	45 42	EOR	\$42				
0ECA-	4F	???					
0ECB-	4F	???					
0ECC-	54	???					
0ECD-	2E 43 4F	ROL	\$4F43				
0ED0-	44	???					
0ED1-	45 40	EOR	\$40				
0ED3-	B2	???					
0ED4-	00	BRK					
0ED5-	02	???					
0ED6-	5B	???					

0ED7-	AE 3C 02	LDX	\$023C				
0EDA-	4C 02 03	JMP	\$0302				
0EDD-	00	BRK					
0EDE-	0B	???					
0EDF-	49 4D	EOR	#\$4D				
0EE1-	41 43	EOR	(\$43,X)				
0EE3-	52	???					
0EE4-	4F	???					
0EE5-	2E 54 45	ROL	\$4554				
0EE8-	58	CLI					
0EE9-	54	???					
0EEA-	00	BRK					
0EEB-	00	BRK					
0EEC-	40	RTI					
0EED-	B2	???					
0EEE-	00	BRK					
0EEF-	02	???					
0EF0-	5B	???					
0EF1-	AE 4C 02	LDX	\$024C				
0EF4-	67	???					
0EF5-	02	???					
0EF6-	02	???					
0EF7-	00	BRK					
0EF8-	0F	???					
0EF9-	4E 45 57	LSR	\$5745				
0EFC-	45 49	EOR	\$49				
0EFE-	4E 54 45	LSR	\$4554				
0F01-	52	???					
0F02-	50 2E	BVC	\$0F32				
0F04-	43	???					
0F05-	4F	???					
0F06-	44	???					
0F07-	45 00	EOR	\$00				
0F09-	02	???					
0F0A-	6B	???					
0F0B-	AE 67 02	LDX	\$0267				
0F0E-	99 02 03	STA	\$0302,Y				
0F11-	00	BRK					
0F12-	0B	???					
0F13-	55 4E	EOR	\$4E,X				
0F15-	49 54	EOR	#\$54				
0F17-	31 33	AND	(\$33),Y				
0F19-	2E 54 45	ROL	\$4554				
0F1C-	58	CLI					
0F1D-	54	???					
0F1E-	00	BRK					
0F1F-	00	BRK					
0F20-	40	RTI					
0F21-	B2	???					
0F22-	00	BRK					
0F23-	02	???					

	0F24-	6B	???				
	0F25-	AE AF 02	LDX	\$02AF			
	0F28-	B3	???				
	0F29-	02	???				
	0F2A-	02	???				
	0F2B-	00	BRK				
	0F2C-	0C	???				
	0F2D-	4E 45 57	LSR	\$5745			
	0F30-	42	???				
	0F31-	4F	???				
	0F32-	4F	???				
	0F33-	54	???				
	0F34-	2E 43 4F	ROL	\$4F43			
	0F37-	44	???				
	0F38-	45 00	EOR	\$00			
	0F3A-	40	RTI				
	0F3B-	B2	???				
	0F3C-	00	BRK				
	0F3D-	02	???				
	0F3E-	6B	???				
	0F3F-	AE B3 02	LDX	\$02B3			
	0F42-	CD 02 02	CMP	\$0202			
	0F45-	00	BRK				
	0F46-	07	???				
	0F47-	4E 45 57	LSR	\$5745			
	0F4A-	54	???				
	0F4B-	45 53	EOR	\$53			
	0F4D-	54	???				
	0F4E-	00	BRK				
	0F4F-	00	BRK				
	0F50-	72	???				
	0F51-	87	???				
	0F52-	00	BRK				
	0F53-	00	BRK				
	0F54-	40	RTI				
	0F55-	B2	???				
	0F56-	00	BRK				
	0F57-	02	???				
	0F58-	6B	???				
	0F59-	AE CD 02	LDX	\$02CD			
	0F5C-	E9 02	SBC	#\$02			
	0F5E-	03	???				
	0F5F-	00	BRK				
	0F60-	0C	???				
	0F61-	49 4C	EOR	#\$4C			
	0F63-	4F	???				
	0F64-	43	???				
	0F65-	41 4C	EOR	(\$4C,X)			
	0F67-	53	???				
	0F68-	2E 54 45	ROL	\$4554			
	0F6B-	58	CLI				

	0F6C-	54	???				
	0F6D-	00	BRK				
	0F6E-	40	RTI				
	0F6F-	B2	???				
	0F70-	00	BRK				
	0F71-	02	???				
	0F72-	7B	???				
	0F73-	AE E9 02	LDX	\$02E9			
	0F76-	03	???				
	0F77-	03	???				
	0F78-	02	???				
	0F79-	00	BRK				
	0F7A-	0C	???				
	0F7B-	49 4E	EOR	#\$4E			
	0F7D-	54	???				
	0F7E-	45 52	EOR	\$52			
	0F80-	50 31	BVC	\$0FB3			
	0F82-	2E 43 4F	ROL	\$4F43			
	0F85-	44	???				
	0F86-	45 00	EOR	\$00			
	0F88-	40	RTI				
	0F89-	B2	???				
	0F8A-	00	BRK				
	0F8B-	02	???				
	0F8C-	9B	???				
	0F8D-	AE 03 03	LDX	\$0303			
	0F90-	1D 03 02	ORA	\$0203,X			
	0F93-	00	BRK				
	0F94-	05 54	ORA	\$54			
	0F96-	45 53	EOR	\$53			
	0F98-	54	???				
	0F99-	31 00	AND	(\$00),Y			
	0F9B-	00	BRK				
	0F9C-	00	BRK				
	0F9D-	00	BRK				
	0F9E-	72	???				
	0F9F-	87	???				
	0FA0-	00	BRK				
	0FA1-	00	BRK				
	0FA2-	40	RTI				
	0FA3-	B2	???				
	0FA4-	00	BRK				
	0FA5-	02	???				
	0FA6-	9B	???				
	0FA7-	AE 1D 03	LDX	\$031D			
	0FAA-	27	???				
	0FAB-	03	???				
	0FAC-	03	???				
	0FAD-	00	BRK				
	0FAE-	0D 57 49	ORA	\$4957			
	0FB1-	5A	???				

	0FB2-	47	???				
	0FB3-	52	???				
	0FB4-	41 50	EOR	(\$50,X)			
	0FB6-	48	PHA				
	0FB7-	2E 54 45	ROL	\$4554			
	0FBA-	58	CLI				
	0FBB-	54	???				
	0FBC-	40	RTI				
	0FBD-	B2	???				
	0FBE-	00	BRK				
	0FBF-	02	???				
	0FC0-	9B	???				
	0FC1-	AE 27 03	LDX	\$0327			
	0FC4-	3B	???				
	0FC5-	03	???				
	0FC6-	03	???				
	0FC7-	00	BRK				
	0FC8-	0F	???				
	0FC9-	4D 4F 4E	EOR	\$4E4F			
	0FCC-	53	???				
	0FCD-	54	???				
	0FCE-	47	???				
	0FCF-	52	???				
	0FD0-	41 50	EOR	(\$50,X)			
	0FD2-	48	PHA				
	0FD3-	2E 54 45	ROL	\$4554			
	0FD6-	58	CLI				
	0FD7-	54	???				
	0FD8-	00	BRK				
	0FD9-	02	???				
	0FDA-	9B	???				
	0FDB-	AE 3B 03	LDX	\$033B			
	0FDE-	59 03 03	EOR	\$0303,Y			
	0FE1-	00	BRK				
	0FE2-	0C	???				
	0FE3-	4E 45 57	LSR	\$5745			
	0FE6-	42	???				
	0FE7-	4F	???				
	0FE8-	4F	???				
	0FE9-	54	???				
	0FEA-	2E 54 45	ROL	\$4554			
	0FED-	58	CLI				
	0FEE-	54	???				
	0FEF-	00	BRK				
	0FF0-	40	RTI				
	0FF1-	B2	???				
	0FF2-	00	BRK				
	0FF3-	02	???				
	0FF4-	9B	???				
	0FF5-	AE 59 03	LDX	\$0359			
	0FF8-	74	???				

	0FF9-	03	???				
	0FFA-	02	???				
	0FFB-	00	BRK				
	0FFC-	0B	???				
	0FFD-	49 4E	EOR	#\$4E			
	0FFF-	54	???				
	1000-	45 52	EOR	\$52			
	1002-	50 2E	BVC	\$1032			
	1004-	43	???				
	1005-	4F	???				
	1006-	44	???				
	1007-	45 00	EOR	\$00			
	1009-	00	BRK				
	100A-	6C B4 00	JMP	(\$00B4)			
	100D-	02	???				
	100E-	BB	???				
	100F-	AE C1 03	LDX	\$03C1			
	1012-	D7	???				
	1013-	03	???				
	1014-	03	???				
	1015-	00	BRK				
	1016-	0B	???				
	1017-	49 4C	EOR	#\$4C			
	1019-	4F	???				
	101A-	43	???				
	101B-	41 54	EOR	(\$54,X)			
	101D-	2E 54 45	ROL	\$4554			
	1020-	58	CLI				
	1021-	54	???				
	1022-	00	BRK				
	1023-	00	BRK				
	1024-	40	RTI				
	1025-	B2	???				
	1026-	00	BRK				
	1027-	02	???				
	1028-	9B	???				
	1029-	AE 0B 04	LDX	\$040B			
	102C-	29 04	AND	#\$04			
	102E-	03	???				
	102F-	00	BRK				
	1030-	0E 49 53	ASL	\$5349			
	1033-	54	???				
	1034-	41 4E	EOR	(\$4E,X)			
	1036-	44	???				
	1037-	41 52	EOR	(\$52,X)			
	1039-	44	???				
	103A-	2E 54 45	ROL	\$4554			
	103D-	58	CLI				
	103E-	54	???				
	103F-	B2	???				
	1040-	00	BRK				

1041-	02	???				
1042-	9B	???				
1043-	AE 83 04	LDX	\$0483			
1046-	9F	???				
1047-	04	???				
1048-	03	???				
1049-	00	BRK				
104A-	0A	ASL				
104B-	49 49	EOR	#\$49			
104D-	4E 49 54	LSR	\$5449			
1050-	2E 54 45	ROL	\$4554			
1053-	58	CLI				
1054-	54	???				
1055-	87	???				
1056-	00	BRK				
1057-	00	BRK				
1058-	40	RTI				
1059-	B2	???				
105A-	00	BRK				
105B-	02	???				
105C-	AB	???				
105D-	AE 9F 04	LDX	\$049F			
1060-	A3	???				
1061-	04	???				
1062-	02	???				
1063-	00	BRK				
1064-	0A	ASL				
1065-	49 49	EOR	#\$49			
1067-	4E 49 54	LSR	\$5449			
106A-	2E 43 4F	ROL	\$4F43			
106D-	44	???				
106E-	45 87	EOR	\$87			
1070-	00	BRK				
1071-	00	BRK				
1072-	40	RTI				
1073-	B2	???				
1074-	00	BRK				
1075-	02	???				
1076-	AB	???				
1077-	AE BD 04	LDX	\$04BD			
107A-	D7	???				
107B-	04	???				
107C-	02	???				
107D-	00	BRK				
107E-	0C	???				
107F-	49 4E	EOR	#\$4E			
1081-	54	???				
1082-	45 52	EOR	\$52			
1084-	50 37	BVC	\$10BD			
1086-	2E 43 4F	ROL	\$4F43			
1089-	44	???				

108A-	45 00	EOR	\$00				
108C-	40	RTI					
108D-	B2	???					
108E-	00	BRK					
108F-	02	???					
1090-	AB	???					
1091-	AE D7 04	LDX	\$04D7				
1094-	F1 04	SBC	(\$04),Y				
1096-	02	???					
1097-	00	BRK					
1098-	05 54	ORA	\$54				
109A-	45 53	EOR	\$53				
109C-	54	???					
109D-	37	???					
109E-	00	BRK					
109F-	00	BRK					
10A0-	00	BRK					
10A1-	00	BRK					
10A2-	72	???					
10A3-	87	???					
10A4-	00	BRK					
10A5-	00	BRK					
10A6-	40	RTI					
10A7-	B2	???					
10A8-	00	BRK					
10A9-	02	???					
10AA-	AB	???					
10AB-	AE 87 05	LDX	\$0587				
10AE-	95 05	STA	\$05,X				
10B0-	03	???					
10B1-	00	BRK					
10B2-	0D 4E 45	ORA	\$454E				
10B5-	57	???					
10B6-	4D 45 53	EOR	\$5345				
10B9-	53	???					
10BA-	47	???					
10BB-	2E 54 45	ROL	\$4554				
10BE-	58	CLI					
10BF-	54	???					
10C0-	40	RTI					
10C1-	B2	???					
10C2-	00	BRK					
10C3-	02	???					
10C4-	AB	???					
10C5-	AE 95 05	LDX	\$0595				
10C8-	BB	???					
10C9-	05 03	ORA	\$03				
10CB-	00	BRK					
10CC-	0C	???					
10CD-	49 54	EOR	#\$54				
10CF-	41 42	EOR	(\$42,X)				

10D1-	4C 45 53	JMP	\$5345				
10D4-	2E 54 45	ROL	\$4554				
10D7-	58	CLI					
10D8-	54	???					
10D9-	00	BRK					
10DA-	EA	NOP					
10DB-	A4 00	LDY	\$00				
10DD-	02	???					
10DE-	BB	???					
10DF-	AE 83 06	LDX	\$0683				
10E2-	9B	???					
10E3-	06 03	ASL	\$03				
10E5-	00	BRK					
10E6-	0D 56 49	ORA	\$4956				
10E9-	52	???					
10EA-	54	???					
10EB-	44	???					
10EC-	52	???					
10ED-	49 56	EOR	#\$56				
10EF-	2E 54 45	ROL	\$4554				
10F2-	58	CLI					
10F3-	54	???					
10F4-	EA	NOP					
10F5-	A4 00	LDY	\$00				
10F7-	02	???					
10F8-	BB	???					
10F9-	AE 9B 06	LDX	\$069B				
10FC-	A3	???					
10FD-	06 03	ASL	\$03				
10FF-	00	BRK					
1100-	0E 4F 54	ASL	\$544F				
1103-	48	PHA					
1104-	45 52	EOR	\$52				
1106-	44	???					
1107-	49 53	EOR	#\$53				
1109-	4B	???					
110A-	2E 54 45	ROL	\$4554				
110D-	58	CLI					
110E-	54	???					
110F-	A4 00	LDY	\$00				
1111-	02	???					
1112-	BB	???					
1113-	AE D8 06	LDX	\$06D8				
1116-	FE 06 03	INC	\$0306,X				
1119-	00	BRK					
111A-	0E 4F 4C	ASL	\$4C4F				
111D-	44	???					
111E-	54	???					
111F-	41 42	EOR	(\$42,X)				
1121-	4C 45 53	JMP	\$5345				
1124-	2E 54 45	ROL	\$4554				

1127-	58	CLI				
1128-	54	???				
1129-	A5 00	LDA	\$00			
112B-	02	???				
112C-	BB	???				
112D-	AE FE 06	LDX	\$06FE			
1130-	02	???				
1131-	07	???				
1132-	03	???				
1133-	00	BRK				
1134-	0D 4D 45	ORA	\$454D			
1137-	53	???				
1138-	53	???				
1139-	41 47	EOR	(\$47,X)			
113B-	45 53	EOR	\$53			
113D-	2E 54 45	ROL	\$4554			
1140-	58	CLI				
1141-	54	???				
1142-	40	RTI				
1143-	B2	???				
1144-	00	BRK				
1145-	02	???				
1146-	BB	???				
1147-	AE 02 07	LDX	\$0702			
114A-	06 07	ASL	\$07			
114C-	02	???				
114D-	00	BRK				
114E-	0D 4D 45	ORA	\$454D			
1151-	53	???				
1152-	53	???				
1153-	41 47	EOR	(\$47,X)			
1155-	45 53	EOR	\$53			
1157-	2E 43 4F	ROL	\$4F43			
115A-	44	???				
115B-	45 3A	EOR	\$3A			
115D-	B2	???				
115E-	00	BRK				
115F-	02	???				
1160-	BB	???				
1161-	AE 06 07	LDX	\$0706			
1164-	1E 07 03	ASL	\$0307,X			
1167-	00	BRK				
1168-	0A	ASL				
1169-	52	???				
116A-	57	???				
116B-	54	???				
116C-	53	???				
116D-	32	???				
116E-	2E 54 45	ROL	\$4554			
1171-	58	CLI				
1172-	54	???				

1173-	87	???				
1174-	00	BRK				
1175-	00	BRK				
1176-	EA	NOP				
1177-	A4 00	LDY	\$00			
1179-	02	???				
117A-	BB	???				
117B-	AE 69 07	LDX	\$0769			
117E-	77	???				
117F-	07	???				
1180-	03	???				
1181-	00	BRK				
1182-	0E 49 4E	ASL	\$4E49			
1185-	49 54	EOR	#\$54			
1187-	47	???				
1188-	52	???				
1189-	41 50	EOR	(\$50,X)			
118B-	48	PHA				
118C-	2E 54 45	ROL	\$4554			
118F-	58	CLI				
1190-	54	???				
1191-	A4 00	LDY	\$00			
1193-	02	???				
1194-	BB	???				
1195-	AE 9D 07	LDX	\$079D			
1198-	B3	???				
1199-	07	???				
119A-	03	???				
119B-	00	BRK				
119C-	0C	???				
119D-	49 45	EOR	#\$45			
119F-	51 55	EOR	(\$55),Y			
11A1-	41 54	EOR	(\$54,X)			
11A3-	45 2E	EOR	\$2E			
11A5-	54	???				
11A6-	45 58	EOR	\$58			
11A8-	54	???				
11A9-	00	BRK				
11AA-	EA	NOP				
11AB-	A4 00	LDY	\$00			
11AD-	02	???				
11AE-	BB	???				
11AF-	AE 9D 07	LDX	\$079D			
11B2-	B3	???				
11B3-	07	???				
11B4-	03	???				
11B5-	00	BRK				
11B6-	00	BRK				
11B7-	49 45	EOR	#\$45			
11B9-	51 55	EOR	(\$55),Y			
11BB-	41 54	EOR	(\$54,X)			

11BD-	45 2E	EOR	\$2E				
11BF-	54	???					
11C0-	45 58	EOR	\$58				
11C2-	54	???					
11C3-	00	BRK					
11C4-	EA	NOP					
11C5-	A4 00	LDY	\$00				
11C7-	02	???					
11C8-	BB	???					
11C9-	AE 9D 07	LDX	\$079D				
11CC-	B3	???					
11CD-	07	???					
11CE-	03	???					
11CF-	00	BRK					
11D0-	00	BRK					
11D1-	49 45	EOR	#\$45				
11D3-	51 55	EOR	(\$55),Y				
11D5-	41 54	EOR	(\$54,X)				
11D7-	45 2E	EOR	\$2E				
11D9-	54	???					
11DA-	45 58	EOR	\$58				
11DC-	54	???					
11DD-	00	BRK					
11DE-	EA	NOP					
11DF-	A4 00	LDY	\$00				
11E1-	02	???					
11E2-	BB	???					
11E3-	AE 9D 07	LDX	\$079D				
11E6-	B3	???					
11E7-	07	???					
11E8-	03	???					
11E9-	00	BRK					
11EA-	00	BRK					
11EB-	49 45	EOR	#\$45				
11ED-	51 55	EOR	(\$55),Y				
11EF-	41 54	EOR	(\$54,X)				
11F1-	45 2E	EOR	\$2E				
11F3-	54	???					
11F4-	45 58	EOR	\$58				
11F6-	54	???					
11F7-	00	BRK					
11F8-	EA	NOP					
11F9-	A4 00	LDY	\$00				
11FB-	02	???					
11FC-	BB	???					
11FD-	AE 9D 07	LDX	\$079D				
--- Block #5 is hijacked from Directory ---							
1200-	FE 06 03	INC	\$0306,X				
1203-	00	BRK					
1204-	0E 4F 4C	ASL	\$4C4F				
1207-	44	???					

1208-	54	???				
1209-	41 42	EOR	(\$42,X)			
120B-	4C 45 53	JMP	\$5345			
120E-	2E 54 45	ROL	\$4554			
1211-	58	CLI				
1212-	54	???				
1213-	A5 00	LDA	\$00			
1215-	02	???				
1216-	BB	???				
1217-	AE FE 06	LDX	\$06FE			
121A-	02	???				
121B-	07	???				
121C-	03	???				
121D-	00	BRK				
121E-	0D 4D 45	ORA	\$454D			
1221-	53	???				
1222-	53	???				
1223-	41 47	EOR	(\$47,X)			
1225-	45 53	EOR	\$53			
1227-	2E 54 45	ROL	\$4554			
122A-	58	CLI				
122B-	54	???				
122C-	40	RTI				
122D-	B2	???				
122E-	00	BRK				
122F-	02	???				
1230-	BB	???				
1231-	AE 02 07	LDX	\$0702			
1234-	06 07	ASL	\$07			
1236-	02	???				
1237-	00	BRK				
1238-	0D 4D 45	ORA	\$454D			
123B-	53	???				
123C-	53	???				
123D-	41 47	EOR	(\$47,X)			
123F-	45 53	EOR	\$53			
1241-	2E 43 4F	ROL	\$4F43			
1244-	44	???				
1245-	45 3A	EOR	\$3A			
1247-	B2	???				
1248-	00	BRK				
1249-	02	???				
124A-	BB	???				
124B-	AE 06 07	LDX	\$0706			
124E-	1E 07 03	ASL	\$0307,X			
1251-	00	BRK				
1252-	0A	ASL				
1253-	52	???				
1254-	57	???				
1255-	54	???				
1256-	53	???				

1257-	32	???			
1258-	2E 54 45	ROL	\$4554		
125B-	58	CLI			
125C-	54	???			
125D-	87	???			
125E-	00	BRK			
125F-	00	BRK			
1260-	EA	NOP			
1261-	A4 00	LDY	\$00		
1263-	02	???			
1264-	BB	???			
1265-	AE 39 07	LDX	\$0739		
1268-	53	???			
1269-	07	???			
126A-	02	???			
126B-	00	BRK			
126C-	06 54	ASL	\$54		
126E-	45 53	EOR	\$53		
1270-	54	???			
1271-	31 34	AND	(\$34),Y		
1273-	00	BRK			
1274-	00	BRK			
1275-	00	BRK			
1276-	72	???			
1277-	87	???			
1278-	00	BRK			
1279-	00	BRK			
127A-	40	RTI			
127B-	B2	???			
127C-	00	BRK			
127D-	02	???			
127E-	BB	???			
127F-	AE 69 07	LDX	\$0769		
1282-	77	???			
1283-	07	???			
1284-	03	???			
1285-	00	BRK			
1286-	0E 49 4E	ASL	\$4E49		
1289-	49 54	EOR	#\$54		
128B-	47	???			
128C-	52	???			
128D-	41 50	EOR	(\$50,X)		
128F-	48	PHA			
1290-	2E 54 45	ROL	\$4554		
1293-	58	CLI			
1294-	54	???			
1295-	A4 00	LDY	\$00		
1297-	02	???			
1298-	BB	???			
1299-	AE 77 07	LDX	\$0777		
129C-	9D 07 03	STA	\$0307,X		

129F-	00	BRK			
12A0-	0C	???			
12A1-	49 54	EOR	#\$54		
12A3-	41 42	EOR	(\$42,X)		
12A5-	4C 45 53	JMP	\$5345		
12A8-	2E 54 45	ROL	\$4554		
12AB-	58	CLI			
12AC-	54	???			
12AD-	00	BRK			
12AE-	EA	NOP			
12AF-	A4 00	LDY	\$00		
12B1-	02	???			
12B2-	BB	???			
12B3-	AE 9D 07	LDX	\$079D		
12B6-	B3	???			
12B7-	07	???			
12B8-	03	???			
12B9-	00	BRK			
12BA-	0C	???			
12BB-	49 45	EOR	#\$45		
12BD-	51 55	EOR	(\$55),Y		
12BF-	41 54	EOR	(\$54,X)		
12C1-	45 2E	EOR	\$2E		
12C3-	54	???			
12C4-	45 58	EOR	\$58		
12C6-	54	???			
12C7-	00	BRK			
12C8-	EA	NOP			
12C9-	A4 00	LDY	\$00		
12CB-	02	???			
12CC-	BB	???			
12CD-	AE 9D 07	LDX	\$079D		
12D0-	B3	???			
12D1-	07	???			
12D2-	03	???			
12D3-	00	BRK			
12D4-	00	BRK			
12D5-	49 45	EOR	#\$45		
12D7-	51 55	EOR	(\$55),Y		
12D9-	41 54	EOR	(\$54,X)		
12DB-	45 2E	EOR	\$2E		
12DD-	54	???			
12DE-	45 58	EOR	\$58		
12E0-	54	???			
12E1-	00	BRK			
12E2-	EA	NOP			
12E3-	A4 00	LDY	\$00		
12E5-	02	???			
12E6-	BB	???			
12E7-	AE 9D 07	LDX	\$079D		
12EA-	B3	???			

12EB-	07	???				
12EC-	03	???				
12ED-	00	BRK				
12EE-	00	BRK				
12EF-	49 45	EOR	#\$45			
12F1-	51 55	EOR	(\$55), Y			
12F3-	41 54	EOR	(\$54, X)			
12F5-	45 2E	EOR	\$2E			
12F7-	54	???				
12F8-	45 58	EOR	\$58			
12FA-	54	???				
12FB-	00	BRK				
12FC-	EA	NOP				
12FD-	A4 00	LDY	\$00			
12FF-	02	???				
1300-	BB	???				
1301-	AE 9D 07	LDX	\$079D			
1304-	B3	???				
1305-	07	???				
1306-	03	???				
1307-	00	BRK				
1308-	00	BRK				
1309-	49 45	EOR	#\$45			
130B-	51 55	EOR	(\$55), Y			
130D-	41 54	EOR	(\$54, X)			
130F-	45 2E	EOR	\$2E			
1311-	54	???				
1312-	45 58	EOR	\$58			
1314-	54	???				
1315-	00	BRK				
1316-	EA	NOP				
1317-	A4 00	LDY	\$00			
1319-	02	???				
131A-	BB	???				
131B-	AE 9D 07	LDX	\$079D			
131E-	B3	???				
131F-	07	???				
1320-	03	???				
1321-	00	BRK				
1322-	00	BRK				
1323-	49 45	EOR	#\$45			
1325-	51 55	EOR	(\$55), Y			
1327-	41 54	EOR	(\$54, X)			
1329-	45 2E	EOR	\$2E			
132B-	54	???				
132C-	45 58	EOR	\$58			
132E-	54	???				
132F-	00	BRK				
1330-	EA	NOP				
1331-	A4 00	LDY	\$00			
1333-	02	???				

1334-	BB	???				
1335-	AE 9D 07	LDX	\$079D			
1338-	B3	???				
1339-	07	???				
133A-	03	???				
133B-	00	BRK				
133C-	00	BRK				
133D-	49 45	EOR	#\$45			
133F-	51 55	EOR	(\$55), Y			
1341-	41 54	EOR	(\$54, X)			
1343-	45 2E	EOR	\$2E			
1345-	54	???				
1346-	45 58	EOR	\$58			
1348-	54	???				
1349-	00	BRK				
134A-	EA	NOP				
134B-	A4 00	LDY	\$00			
134D-	02	???				
134E-	BB	???				
134F-	AE 9D 07	LDX	\$079D			
1352-	B3	???				
1353-	07	???				
1354-	03	???				
1355-	00	BRK				
1356-	00	BRK				
1357-	49 45	EOR	#\$45			
1359-	51 55	EOR	(\$55), Y			
135B-	41 54	EOR	(\$54, X)			
135D-	45 2E	EOR	\$2E			
135F-	54	???				
1360-	45 58	EOR	\$58			
1362-	54	???				
1363-	00	BRK				
1364-	EA	NOP				
1365-	A4 00	LDY	\$00			
1367-	02	???				
1368-	BB	???				
1369-	AE 9D 07	LDX	\$079D			
136C-	B3	???				
136D-	07	???				
136E-	03	???				
136F-	00	BRK				
1370-	00	BRK				
1371-	49 45	EOR	#\$45			
1373-	51 55	EOR	(\$55), Y			
1375-	41 54	EOR	(\$54, X)			
1377-	45 2E	EOR	\$2E			
1379-	54	???				
137A-	45 58	EOR	\$58			
137C-	54	???				
137D-	00	BRK				

137E-	EA	NOP				
137F-	A4 00	LDY	\$00			
1381-	02	???				
1382-	BB	???				
1383-	AE 9D 07	LDX	\$079D			
1386-	B3	???				
1387-	07	???				
1388-	03	???				
1389-	00	BRK				
138A-	00	BRK				
138B-	49 45	EOR	#\$45			
138D-	51 55	EOR	(\$55),Y			
138F-	41 54	EOR	(\$54,X)			
1391-	45 2E	EOR	\$2E			
1393-	54	???				
1394-	45 58	EOR	\$58			
1396-	54	???				
1397-	00	BRK				
1398-	EA	NOP				
1399-	A4 00	LDY	\$00			
139B-	02	???				
139C-	BB	???				
139D-	AE 9D 07	LDX	\$079D			
13A0-	B3	???				
13A1-	07	???				
13A2-	03	???				
13A3-	00	BRK				
13A4-	00	BRK				
13A5-	49 45	EOR	#\$45			
13A7-	51 55	EOR	(\$55),Y			
13A9-	41 54	EOR	(\$54,X)			
13AB-	45 2E	EOR	\$2E			
13AD-	54	???				
13AE-	45 58	EOR	\$58			
13B0-	54	???				
13B1-	00	BRK				
13B2-	EA	NOP				
13B3-	A4 00	LDY	\$00			
13B5-	02	???				
13B6-	BB	???				
13B7-	AE 9D 07	LDX	\$079D			
13BA-	B3	???				
13BB-	07	???				
13BC-	03	???				
13BD-	00	BRK				
13BE-	00	BRK				
13BF-	49 45	EOR	#\$45			
13C1-	51 55	EOR	(\$55),Y			
13C3-	41 54	EOR	(\$54,X)			
13C5-	45 2E	EOR	\$2E			
13C7-	54	???				

148C-	85 00	STA	\$00						
148E-	A5 BD	LDA	\$BD						
1490-	85 01	STA	\$01						
1492-	B1 00	LDA	(\$00),Y						
1494-	AA	TAX							
1495-	88	DEY							
1496-	B1 00	LDA	(\$00),Y						
1498-	85 00	STA	\$00						
149A-	86 01	STX	\$01						
149C-	C8	INX							
149D-	C6 CC	DEC	\$CC						
149F-	D0 F1	BNE	\$1492						
14A1-	A8	TAY							
14A2-	60	RTS							
14A3-	A0 00	LDY	#\$00						
14A5-	E6 9E	INC	\$9E						
14A7-	D0 02	BNE	\$14AB						
14A9-	E6 9F	INC	\$9F						
14AB-	B1 9E	LDA	(\$9E),Y						
14AD-	0A	ASL							
14AE-	B0 03	BCS	\$14B3						
14B0-	A2 00	LDX	#\$00						
14B2-	60	RTS							
14B3-	AA	TAX							
14B4-	E6 9E	INC	\$9E						
14B6-	D0 02	BNE	\$14BA						
14B8-	E6 9F	INC	\$9F						
14BA-	B1 9E	LDA	(\$9E),Y						
14BC-	0A	ASL							
14BD-	90 01	BCC	\$14C0						
14BF-	E8	INX							
14C0-	60	RTS							
14C1-	86 C9	STX	\$C9						
14C3-	84 C8	STY	\$C8						
14C5-	A2 00	LDX	#\$00						
14C7-	A0 01	LDY	#\$01						
14C9-	B1 9E	LDA	(\$9E),Y						
14CB-	0A	ASL							
14CC-	90 0E	BCC	\$14DC						
14CE-	AA	TAX							
14CF-	E6 9E	INC	\$9E						
14D1-	D0 02	BNE	\$14D5						
14D3-	E6 9F	INC	\$9F						
14D5-	B1 9E	LDA	(\$9E),Y						
14D7-	0A	ASL							
14D8-	90 02	BCC	\$14DC						
14DA-	E8	INX							
14DB-	18	CLC							
14DC-	65 C8	ADC	\$C8						
14DE-	85 C8	STA	\$C8						
14E0-	8A	TXA							
14E1-	65 C9	ADC	\$C9						
14E3-	85 C9	STA	\$C9						
14E5-	60	RTS							

pCode=\$C7 LDCI									
(same)									
[\$D0E6]									
14E6-	A0 02	LDY	#\$02						
14E8-	B1 9E	LDA	(\$9E),Y	\$9E.9F	===	IPCPTR			
14EA-	48	PHA							
14EB-	88	DEY							
14EC-	B1 9E	LDA	(\$9E),Y						
14EE-	48	PHA							

158B-	4C 96 00	JMP	\$0096	
				pCode=\$E8 SLDO 1
				pCode=\$E9 SLDO 2
				pCode=\$EA SLDO 3
				pCode=\$EB SLDO 4
				pCode=\$EC SLDO 5
				pCode=\$ED SLDO 6
				pCode=\$EE SLDO 7
				pCode=\$EF SLDO 8
				pCode=\$F0 SLDO 9
				pCode=\$F1 SLDO 10
				pCode=\$F2 SLDO 11
				pCode=\$F3 SLDO 12
				pCode=\$F4 SLDO 13
				pCode=\$F5 SLDO 14
				pCode=\$F6 SLDO 15
				pCode=\$F7 SLDO 16
				[\$D18E]
158E-	BC 00 FE	LDY	\$FE00,X	
1591-	B1 B2	LDA	(\$B2),Y	\$B2 === MSPTR
1593-	48	PHA		
1594-	88	DEY		
1595-	B1 B2	LDA	(\$B2),Y	
1597-	4C 96 00	JMP	\$0096	
				pCode=\$F8 SIND 0
				pCode=\$F9 SIND 1
				pCode=\$FA SIND 2
				pCode=\$FB SIND 3
				pCode=\$FC SIND 4
				pCode=\$FD SIND 5
				pCode=\$FE SIND 6
				pCode=\$FF SIND 7
				[\$D19A]
159A-	BC 00 FE	LDY	\$FE00,X	
159D-	68	PLA		
159E-	85 C8	STA	\$C8	
15A0-	68	PLA		
15A1-	85 C9	STA	\$C9	
15A3-	B1 C8	LDA	(\$C8),Y	
15A5-	48	PHA		
15A6-	88	DEY		
15A7-	B1 C8	LDA	(\$C8),Y	
15A9-	4C 96 00	JMP	\$0096	
				pCode=\$A9 LDO
				[\$D1AC]
15AC-	A4 B2	LDY	\$B2	
15AE-	A6 B3	LDX	\$B3	
15B0-	D0 0A	BNE	\$15BC	
				pCode=\$B6 LOD
				[\$D1B2]
15B2-	20 7E D0	JSR	\$D07E	
15B5-	4C BC D1	JMP	\$D1BC	
				pCode=\$CA LDL
				[\$D1B8]
15B8-	A6 BD	LDX	\$BD	
15BA-	A4 BC	LDY	\$BC	
15BC-	20 C1 D0	JSR	\$DOC1	
15BF-	A0 0B	LDY	#\$0B	
15C1-	B1 C8	LDA	(\$C8),Y	

15C3-	48	PHA							
15C4-	88	DEY							
15C5-	B1 C8	LDA (\$C8),Y							
15C7-	48	PHA							
15C8-	4C F1 D0	JMP \$D0F1							
pCode=\$B2 LDA									
[\$D1CB]									
15CB-	20 7E D0	JSR \$D07E							
15CE-	D0 0A	BNE \$15DA							
pCode=\$A5 LAO									
[\$D1D0]									
15D0-	A4 B2	LDY \$B2							
15D2-	A6 B3	LDX \$B3							
15D4-	D0 04	BNE \$15DA							
pCode=\$C6 LLA									
[\$D1D6]									
15D6-	A4 BC	LDY \$BC							
15D8-	A6 BD	LDX \$BD							
15DA-	98	TYA							
15DB-	18	CLC							
15DC-	69 0A	ADC # \$0A							
15DE-	90 01	BCC \$15E1							
15E0-	E8	INX							
15E1-	A8	TAY							
15E2-	20 C1 D0	JSR \$D0C1							
15E5-	48	PHA							
15E6-	A5 C8	LDA \$C8							
15E8-	48	PHA							
15E9-	4C F1 D0	JMP \$D0F1							
pCode=\$AB SRO									
[\$D1EC]									
15EC-	A4 B2	LDY \$B2							
15EE-	A6 B3	LDX \$B3							
15F0-	D0 0A	BNE \$15FC							
pCode=\$B8 STR									
[\$D1F2]									
15F2-	20 7E D0	JSR \$D07E							
15F5-	4C FC D1	JMP \$D1FC							
pCode=\$CC STL									
[\$D1F8]									
15F8-	A6 BD	LDX \$BD							
15FA-	A4 BC	LDY \$BC							
15FC-	20 C1 D0	JSR \$D0C1							
15FF-	A0 0A	LDY # \$0A							
1601-	68	PLA							
1602-	91 C8	STA (\$C8),Y							
1604-	C8	INY							
1605-	68	PLA							
1606-	91 C8	STA (\$C8),Y							
1608-	4C F1 D0	JMP \$D0F1							
pCode=\$A3 IND									
[\$D20B]									
160B-	68	PLA							
160C-	A8	TAY							
160D-	68	PLA							
160E-	AA	TAX							
160F-	20 C1 D0	JSR \$D0C1							
1612-	A0 01	LDY # \$01							

18B2-	F1 BA	SBC	(\$BA),Y					
18B4-	AA	TAX						
18B5-	C8	INY		Expand for PARAMETER SIZE				
18B6-	68	PLA						
18B7-	F1 BA	SBC	(\$BA),Y					
18B9-	B0 02	BCS	\$18BD					
18BB-	CA	DEX						
18BC-	38	SEC						
18BD-	E9 0E	SBC	#\$0E	Expand another 14 bytes				
18BF-	B0 01	BCS	\$18C2					
18C1-	CA	DEX						
18C2-	86 05	STX	\$05	e.g., 04.05 := #9146				
18C4-	85 04	STA	\$04					
18C6-	B1 BA	LDA	(\$BA),Y					
18C8-	F0 16	BEQ	\$18E0					

18CA-	AA	TAX		Pull JSR return off stack				
18CB-	68	PLA		Save it in \$00.\$01				
18CC-	85 00	STA	\$00					
18CE-	68	PLA						
18CF-	85 01	STA	\$01					
18D1-	A0 0E	LDY	#\$0E	Pull params off stack				
18D3-	68	PLA						
18D4-	91 04	STA	(\$04),Y	Push them into new MARKSTACK				
18D6-	C8	INY		(Pass them to Procedure)				
18D7-	CA	DEX						
18D8-	D0 F9	BNE	\$18D3					
18DA-	A5 01	LDA	\$01	Restore JSR to stack				
18DC-	48	PHA						
18DD-	A5 00	LDA	\$00					
18DF-	48	PHA						

18E0-	A0 00	LDY	#\$00	Save old KP (BE.BF)				
18E2-	A5 BE	LDA	\$BE					
18E4-	91 04	STA	(\$04),Y	after new Markstack				
18E6-	C8	INY						
18E7-	A5 BF	LDA	\$BF					
18E9-	91 04	STA	(\$04),Y					
18EB-	A0 04	LDY	#\$04	Save BASE (BC.BD) (?)				
18ED-	A5 BC	LDA	\$BC	e.g., \$BFF0				
18EF-	91 04	STA	(\$04),Y					
18F1-	C8	INY						
18F2-	A5 BD	LDA	\$BD					
18F4-	91 04	STA	(\$04),Y					
18F6-	C8	INY		Save JTAB (B8.B9)				
18F7-	A5 B8	LDA	\$B8	e.g., \$BC91				
18F9-	91 04	STA	(\$04),Y					
18FB-	C8	INY						
18FC-	A5 B9	LDA	\$B9					
18FE-	91 04	STA	(\$04),Y					
1900-	C8	INY		Save SEG ptr (B6.B7)				
1901-	A5 B6	LDA	\$B6	e.g., \$BC91				
1903-	91 04	STA	(\$04),Y					
1905-	C8	INY						
1906-	A5 B7	LDA	\$B7					
1908-	91 04	STA	(\$04),Y					

190A-	C8	INY		Save old IPC+2 (9E.9F) (?)			
190B-	18	CLC		Return point			
190C-	A5 9E	LDA	\$9E	e.g., \$C000			
190E-	69 02	ADC	#\$02				
1910-	91 04	STA	(\$04),Y				
1912-	C8	INY					
1913-	A5 9F	LDA	\$9F				
1915-	69 00	ADC	#\$00				
1917-	91 04	STA	(\$04),Y				
1919-	C8	INY		Save SP			
191A-	BA	TSX					
191B-	E8	INX		(previous to \$D488 call)			
191C-	E8	INX					
191D-	8A	TXA					
191E-	91 04	STA	(\$04),Y				
1920-	A6 05	LDX	\$05	KP updated (BE.BF)			
1922-	A5 04	LDA	\$04				
1924-	86 BF	STX	\$BF				
1926-	85 BE	STA	\$BE				
1928-	69 02	ADC	#\$02				
192A-	90 01	BCC	\$192D				
192C-	E8	INX					
192D-	86 BD	STX	\$BD	BC.BD updated (Markstack ptr)			
192F-	85 BC	STA	\$BC				
1931-	A6 BB	LDX	\$BB				
1933-	E8	INX					
1934-	A5 BA	LDA	\$BA				
1936-	85 B8	STA	\$B8	B8.B9 updated			
1938-	86 B9	STX	\$B9				
193A-	38	SEC		IPC (9E.9F) updated			
193B-	E9 02	SBC	#\$02				
193D-	B0 02	BCS	\$1941				
193F-	CA	DEX					
1940-	38	SEC					
1941-	A0 FE	LDY	#\$FE				
1943-	F1 BA	SBC	(\$BA),Y				
1945-	85 9E	STA	\$9E				
1947-	8A	TXA					
1948-	C8	INY					
1949-	F1 BA	SBC	(\$BA),Y				
194B-	85 9F	STA	\$9F				
194D-	A0 01	LDY	#\$01				
194F-	38	SEC					
1950-	A5 B4	LDA	\$B4				
1952-	E5 BE	SBC	\$BE				
1954-	A8	TAY					
1955-	A5 B5	LDA	\$B5				
1957-	E5 BF	SBC	\$BF				
1959-	B0 03	BCS	\$195E				
195B-	A0 01	LDY	#\$01				
195D-	60	RTS					
195E-	A2 04	LDX	#\$04				
1960-	4C 00 FE	JMP	\$FE00				

CGP (\$CF) Call Global Procedure							
[\$D563]							
1963-	20 84 D4	JSR	\$D484				
1966-	A5 B3	LDA	\$B3				

1968-	91 BC	STA	(\$BC),Y					
196A-	88	DEY						
196B-	A5 B2	LDA	\$B2					
196D-	91 BC	STA	(\$BC),Y					
196F-	4C 9D 00	JMP	\$009D					

CLP (\$CE) Call Local Procedure								
[\$D572]								
1972-	20 84 D4	JSR	\$D484					
1975-	C8	INY						
1976-	B1 BC	LDA	(\$BC),Y					
1978-	91 BE	STA	(\$BE),Y					
197A-	C8	INY						
197B-	B1 BC	LDA	(\$BC),Y					
197D-	91 BE	STA	(\$BE),Y					
197F-	4C 9D 00	JMP	\$009D					

CBP (\$C2) Call Base Procedure								
[\$D582]								
1982-	20 84 D4	JSR	\$D484					
[\$D585]								
1985-	B1 B2	LDA	(\$B2),Y					
1987-	91 BC	STA	(\$BC),Y					
1989-	88	DEY						
198A-	B1 B2	LDA	(\$B2),Y					
198C-	91 BC	STA	(\$BC),Y					
198E-	A5 B3	LDA	\$B3					
1990-	48	PHA						
1991-	A5 B2	LDA	\$B2					
1993-	48	PHA						
1994-	A5 BC	LDA	\$BC					
1996-	85 B2	STA	\$B2					
1998-	A5 BD	LDA	\$BD					
199A-	85 B3	STA	\$B3					
199C-	4C 9D 00	JMP	\$009D					

CXP (\$CD) Call External Procedure								
[\$D59F]								
199F-	E6 9E	INC	\$9E	Increment	IPCPtr (to UB1)			
19A1-	D0 02	BNE	\$19A5					
19A3-	E6 9F	INC	\$9F					
19A5-	A0 00	LDY	#\$00					
19A7-	B1 9E	LDA	(\$9E),Y	Get UB1 =	Segment#			
19A9-	20 14 DE	JSR	\$DE14	JSR \$DE14	Read Segment into memory			
				if not there	already.			
19AC-	BD 8A 0C	LDA	\$0C8A,X	\$0A.0B :=	Procedure Dictionary			
19AF-	85 0B	STA	\$0B	(e.g.,	#\$BFEC)			
19B1-	BD 7A 0C	LDA	\$0C7A,X					
19B4-	85 0A	STA	\$0A					
19B6-	A6 0B	LDX	\$0B	A.X :=	Procedure Dictionary			
19B8-	20 88 D4	JSR	\$D488	JSR \$D488	Build new MARKSTACK			
19BB-	A5 0A	LDA	\$0A					
19BD-	85 B6	STA	\$B6					
19BF-	A5 0B	LDA	\$0B					
19C1-	85 B7	STA	\$B7					
19C3-	B1 B8	LDA	(\$B8),Y	A :=	Lex Level			
19C5-	F0 BE	BEQ	\$1985 [\$D585]	Into	CBP code			
19C7-	30 BC	BMI	\$1985 [\$D585]	Into	CBP code			
19C9-	10 05	BPL	\$19D0 [\$D5D0]	Into	CIP code (Lex Level > 0)			

CIP (\$AE) Call Intermediate Procedure								

	[\$D5CB]								
19CB-	20 84 D4	JSR	\$D484						
19CE-	B1 B8	LDA	(\$B8),Y	A := Lex Level					
				A == Lex Level					
				BC.BD == New Markstack					
	[\$D5D0]								
19D0-	AA	TAX							
19D1-	CA	DEX							
19D2-	86 24	STX	\$24	\$24 := Lex Level - 1					
19D4-	A5 BC	LDA	\$BC	\$08.09 := Base? or MP? Not sure					
19D6-	85 08	STA	\$08						
19D8-	A5 BD	LDA	\$BD						
19DA-	85 09	STA	\$09						
19DC-	A0 04	LDY	#\$04	\$02.03 := Caller's JTAB (?)					
19DE-	B1 08	LDA	(\$08),Y						
19E0-	85 02	STA	\$02						
19E2-	C8	INY							
19E3-	B1 08	LDA	(\$08),Y						
19E5-	85 03	STA	\$03						
19E7-	A0 02	LDY	#\$02						
19E9-	B1 08	LDA	(\$08),Y						
19EB-	AA	TAX							
19EC-	C8	INY							
19ED-	B1 08	LDA	(\$08),Y						
19EF-	85 09	STA	\$09						
19F1-	86 08	STX	\$08						
19F3-	A0 01	LDY	#\$01						
19F5-	B1 02	LDA	(\$02),Y	Get Lex Level for this JTAB					
19F7-	C5 24	CMP	\$24						
19F9-	D0 E1	BNE	\$19DC	Loop until we get to previous lex lev					
19FB-	A5 09	LDA	\$09	"Use that activation record's					
19FD-	91 BC	STA	(\$BC),Y	Static Link as the Static Link of the					
19FF-	88	DEY		new Markstack."					
1A00-	8A	TXA							
1A01-	91 BC	STA	(\$BC),Y						
1A03-	4C 9D 00	JMP	\$009D						
				pCode=\$C1 RBP					
	[\$D606]								
1A06-	A0 0A	LDY	#\$0A						
1A08-	B1 BC	LDA	(\$BC),Y						
1A0A-	AA	TAX							
1A0B-	CA	DEX							
1A0C-	CA	DEX							
1A0D-	9A	TXS							
1A0E-	68	PLA							
1A0F-	85 B2	STA	\$B2						
1A11-	68	PLA							
1A12-	85 B3	STA	\$B3						
1A14-	D0 06	BNE	\$1A1C						
				pCode=\$AD RNP					
	[\$D616]								
1A16-	A0 0A	LDY	#\$0A						
1A18-	B1 BC	LDA	(\$BC),Y						
1A1A-	AA	TAX							
1A1B-	9A	TXS							
1A1C-	A0 01	LDY	#\$01						
1A1E-	B1 9E	LDA	(\$9E),Y						

1A20-	F0 09	BEQ	\$1A2B						
1A22-	A0 0D	LDY	#\$0D						
1A24-	B1 BC	LDA	(\$BC),Y						
1A26-	48	PHA							
1A27-	88	DEY							
1A28-	B1 BC	LDA	(\$BC),Y						
1A2A-	48	PHA							
1A2B-	A0 04	LDY	#\$04						
1A2D-	B1 BC	LDA	(\$BC),Y						
1A2F-	85 B8	STA	\$B8						
1A31-	85 BA	STA	\$BA						
1A33-	C8	INY							
1A34-	B1 BC	LDA	(\$BC),Y						
1A36-	85 B9	STA	\$B9						
1A38-	85 BB	STA	\$BB						
1A3A-	C6 BB	DEC	\$BB						
1A3C-	C8	INY							
1A3D-	B1 BC	LDA	(\$BC),Y						
1A3F-	85 C8	STA	\$C8						
1A41-	C8	INY							
1A42-	B1 BC	LDA	(\$BC),Y						
1A44-	85 C9	STA	\$C9						
1A46-	C8	INY							
1A47-	B1 BC	LDA	(\$BC),Y						
1A49-	85 9E	STA	\$9E						
1A4B-	C8	INY							
1A4C-	B1 BC	LDA	(\$BC),Y						
1A4E-	85 9F	STA	\$9F						
1A50-	A0 02	LDY	#\$02						
1A52-	B1 BC	LDA	(\$BC),Y						
1A54-	AA	TAX							
1A55-	C8	INY							
1A56-	B1 BC	LDA	(\$BC),Y						
1A58-	85 BD	STA	\$BD						
1A5A-	86 BC	STX	\$BC						
1A5C-	A0 00	LDY	#\$00						
1A5E-	B1 BE	LDA	(\$BE),Y						
1A60-	AA	TAX							
1A61-	C8	INY							
1A62-	B1 BE	LDA	(\$BE),Y						
1A64-	85 BF	STA	\$BF						
1A66-	86 BE	STX	\$BE						
1A68-	88	DEY							
1A69-	B1 B6	LDA	(\$B6),Y						
1A6B-	D1 C8	CMP	(\$C8),Y						
1A6D-	F0 0B	BEQ	\$1A7A						
1A6F-	20 F9 DD	JSR	\$DDF9						
1A72-	A5 C8	LDA	\$C8						
1A74-	85 B6	STA	\$B6						
1A76-	A5 C9	LDA	\$C9						
1A78-	85 B7	STA	\$B7						
1A7A-	4C 9D 00	JMP	\$009D						
1A7D-	68	PLA							
1A7E-	85 26	STA	\$26						
1A80-	68	PLA							
1A81-	68	PLA							
1A82-	85 25	STA	\$25						
1A84-	68	PLA							
1A85-	A0 01	LDY	#\$01						
1A87-	B1 B8	LDA	(\$B8),Y						
1A89-	10 03	BPL	\$1A8E						
1A8B-	4C 3D DF	JMP	\$DF3D						
1A8E-	A6 B9	LDX	\$B9						

1A90-	A5 B8	LDA	\$B8					
1A92-	38	SEC						
1A93-	E9 04	SBC	#\$04					
1A95-	B0 02	BCS	\$1A99					
1A97-	CA	DEX						
1A98-	38	SEC						
1A99-	A0 FC	LDY	#\$FC					
1A9B-	F1 BA	SBC	(\$BA),Y					
1A9D-	85 9E	STA	\$9E					
1A9F-	8A	TXA						
1AA0-	C8	INY						
1AA1-	F1 BA	SBC	(\$BA),Y					
1AA3-	85 9F	STA	\$9F					
1AA5-	A0 00	LDY	#\$00					
1AA7-	B1 B8	LDA	(\$B8),Y					
1AA9-	C5 26	CMP	\$26					
1AAB-	D0 06	BNE	\$1AB3					
1AAD-	B1 B6	LDA	(\$B6),Y					
1AAF-	C5 25	CMP	\$25					
1AB1-	F0 56	BEQ	\$1B09					
1AB3-	A5 BC	LDA	\$BC					
1AB5-	A6 BD	LDX	\$BD					
1AB7-	D0 08	BNE	\$1AC1					
1AB9-	A0 03	LDY	#\$03					
1ABB-	B1 C8	LDA	(\$C8),Y					
1ABD-	AA	TAX						
1ABE-	88	DEY						
1ABF-	B1 C8	LDA	(\$C8),Y					
1AC1-	85 C8	STA	\$C8					
1AC3-	86 C9	STX	\$C9					
1AC5-	A0 05	LDY	#\$05					
1AC7-	B1 C8	LDA	(\$C8),Y					
1AC9-	AA	TAX						
1ACA-	88	DEY						
1ACB-	B1 C8	LDA	(\$C8),Y					
1ACD-	38	SEC						
1ACE-	E9 04	SBC	#\$04					
1AD0-	B0 02	BCS	\$1AD4					
1AD2-	CA	DEX						
1AD3-	38	SEC						
1AD4-	85 CA	STA	\$CA					
1AD6-	86 CB	STX	\$CB					
1AD8-	A0 00	LDY	#\$00					
1ADA-	F1 CA	SBC	(\$CA),Y					
1ADC-	A0 08	LDY	#\$08					
1ADE-	91 C8	STA	(\$C8),Y					
1AE0-	8A	TXA						
1AE1-	A0 01	LDY	#\$01					
1AE3-	F1 CA	SBC	(\$CA),Y					
1AE5-	A0 09	LDY	#\$09					
1AE7-	91 C8	STA	(\$C8),Y					
1AE9-	A0 05	LDY	#\$05					
1AEB-	B1 CA	LDA	(\$CA),Y					
1AED-	30 1D	BMI	\$1B0C					
1AEF-	88	DEY						
1AF0-	B1 CA	LDA	(\$CA),Y					
1AF2-	C5 26	CMP	\$26					
1AF4-	D0 C3	BNE	\$1AB9					
1AF6-	A0 06	LDY	#\$06					
1AF8-	B1 C8	LDA	(\$C8),Y					
1AFA-	85 CA	STA	\$CA					
1AFC-	C8	INY						
1AFD-	B1 C8	LDA	(\$C8),Y					
1AFF-	85 CB	STA	\$CB					

1B01-	A0 00	LDY	#\$00						
1B03-	B1 CA	LDA	(\$CA),Y						
1B05-	C5 25	CMP	\$25						
1B07-	D0 B0	BNE	\$1AB9						
1B09-	4C 9D 00	JMP	\$009D						
1B0C-	A5 25	LDA	\$25						
1B0E-	A4 26	LDY	\$26						
1B10-	A2 03	LDX	#\$03						
1B12-	4C 00 FE	JMP	\$FE00						
pCode=\$C8 LEQI									
[\$D715]									
1B15-	BA	TSX							
1B16-	68	PLA							
1B17-	DD 03 01	CMP	\$0103,X						
1B1A-	68	PLA							
1B1B-	FD 04 01	SBC	\$0104,X						
1B1E-	30 06	BMI	\$1B26						
1B20-	50 53	BVC	\$1B75						
1B22-	70 6B	BVS	\$1B8F						
1B24-	68	PLA							
1B25-	68	PLA							
1B26-	70 4D	BVS	\$1B75						
1B28-	50 65	BVC	\$1B8F						
pCode=\$C9 LESI									
[\$D72A]									
1B2A-	BA	TSX							
1B2B-	BD 03 01	LDA	\$0103,X						
1B2E-	DD 01 01	CMP	\$0101,X						
1B31-	BD 04 01	LDA	\$0104,X						
1B34-	FD 02 01	SBC	\$0102,X						
1B37-	30 70	BMI	\$1BA9						
1B39-	50 20	BVC	\$1B5B						
1B3B-	68	PLA							
1B3C-	68	PLA							
1B3D-	A9 01	LDA	#\$01						
1B3F-	9D 03 01	STA	\$0103,X						
1B42-	A9 00	LDA	#\$00						
1B44-	9D 04 01	STA	\$0104,X						
1B47-	4C 97 00	JMP	\$0097						
pCode=\$C4 GEQI									
[\$D74A]									
1B4A-	BA	TSX							
1B4B-	BD 03 01	LDA	\$0103,X						
1B4E-	DD 01 01	CMP	\$0101,X						
1B51-	BD 04 01	LDA	\$0104,X						
1B54-	FD 02 01	SBC	\$0102,X						
1B57-	30 CB	BMI	\$1B24						
1B59-	50 E0	BVC	\$1B3B						
1B5B-	68	PLA							
1B5C-	68	PLA							
1B5D-	A9 00	LDA	#\$00						
1B5F-	9D 03 01	STA	\$0103,X						
1B62-	9D 04 01	STA	\$0104,X						
1B65-	4C 97 00	JMP	\$0097						
pCode=\$C3 EQUI									
[\$D768]									
1B68-	BA	TSX							
1B69-	68	PLA							

1BCF-	68	PLA							
1BD0-	85 C2	STA	\$C2						
1BD2-	68	PLA							
1BD3-	85 C3	STA	\$C3						
1BD5-	08	PHP							
1BD6-	20 A5 D0	JSR	\$D0A5						
1BD9-	85 CC	STA	\$CC						
1BDB-	8A	TXA							
1BDC-	28	PLP							
1BDD-	90 03	BCC	\$1BE2						
1BDF-	4A	LSR							
1BE0-	66 CC	ROR	\$CC						
1BE2-	88	DEY							
1BE3-	AA	TAX							
1BE4-	F0 0C	BEQ	\$1BF2						
1BE6-	B1 C2	LDA	(\$C2),Y						
1BE8-	D1 C0	CMP	(\$C0),Y						
1BEA-	D0 16	BNE	\$1C02						
1BEC-	C8	INY							
1BED-	D0 F7	BNE	\$1BE6						
1BEF-	CA	DEX							
1BF0-	D0 F4	BNE	\$1BE6						
1BF2-	A6 1A	LDX	\$1A						
1BF4-	F0 0A	BEQ	\$1C00						
1BF6-	B1 C2	LDA	(\$C2),Y						
1BF8-	D1 C0	CMP	(\$C0),Y						
1BFA-	D0 06	BNE	\$1C02						
1BFC-	C8	INY							
1BFD-	CA	DEX							
1BFE-	D0 F6	BNE	\$1BF6						
1C00-	F0 59	BEQ	\$1C5B						
1C02-	B0 54	BCS	\$1C58						
1C04-	90 4E	BCC	\$1C54						
1C06-	68	PLA							
1C07-	AA	TAX							
1C08-	68	PLA							
1C09-	D0 06	BNE	\$1C11						
1C0B-	84 C4	STY	\$C4						
1C0D-	86 C5	STX	\$C5						
1C0F-	A2 C4	LDX	#\$C4						
1C11-	86 C0	STX	\$C0						
1C13-	85 C1	STA	\$C1						
1C15-	68	PLA							
1C16-	AA	TAX							
1C17-	68	PLA							
1C18-	D0 06	BNE	\$1C20						
1C1A-	84 C6	STY	\$C6						
1C1C-	86 C7	STX	\$C7						
1C1E-	A2 C6	LDX	#\$C6						
1C20-	86 C2	STX	\$C2						
1C22-	85 C3	STA	\$C3						
1C24-	88	DEY							
1C25-	B1 C0	LDA	(\$C0),Y						
1C27-	D1 C2	CMP	(\$C2),Y						
1C29-	90 02	BCC	\$1C2D						
1C2B-	B1 C2	LDA	(\$C2),Y						
1C2D-	AA	TAX							
1C2E-	F0 0A	BEQ	\$1C3A						
1C30-	C8	INY							
1C31-	B1 C0	LDA	(\$C0),Y						
1C33-	D1 C2	CMP	(\$C2),Y						
1C35-	D0 09	BNE	\$1C40						
1C37-	CA	DEX							
1C38-	D0 F6	BNE	\$1C30						

1C3A-	A1 C2	LDA	(\$C2,X)					
1C3C-	C1 C0	CMP	(\$C0,X)					
1C3E-	F0 1B	BEQ	\$1C5B					
1C40-	B0 16	BCS	\$1C58					
1C42-	90 10	BCC	\$1C54					
1C44-	68	PLA						
1C45-	4A	LSR						
1C46-	68	PLA						
1C47-	68	PLA						
1C48-	B0 06	BCS	\$1C50					
1C4A-	4A	LSR						
1C4B-	68	PLA						
1C4C-	B0 0D	BCS	\$1C5B					
1C4E-	90 08	BCC	\$1C58					
1C50-	4A	LSR						
1C51-	68	PLA						
1C52-	90 07	BCC	\$1C5B					
1C54-	A2 16	LDX	#\$16					
1C56-	D0 05	BNE	\$1C5D					
1C58-	A2 2A	LDX	#\$2A					
1C5A-	2C A2 31	BIT	\$31A2					
1C5D-	A9 00	LDA	#\$00					
1C5F-	48	PHA						
1C60-	8A	TXA						
1C61-	25 1B	AND	\$1B					
1C63-	F0 02	BEQ	\$1C67					
1C65-	A9 01	LDA	#\$01					
1C67-	48	PHA						
1C68-	4C F1 D0	JMP	\$D0F1					
1C6B-	A9 00	LDA	#\$00					
1C6D-	85 18	STA	\$18					
1C6F-	85 19	STA	\$19					
1C71-	20 CC D9	JSR	\$D9CC					
1C74-	9A	TXS						
1C75-	B0 13	BCS	\$1C8A					
1C77-	A4 C4	LDY	\$C4					
1C79-	B1 C0	LDA	(\$C0),Y					
1C7B-	D0 07	BNE	\$1C84					
1C7D-	88	DEY						
1C7E-	C4 C6	CPY	\$C6					
1C80-	D0 F7	BNE	\$1C79					
1C82-	F0 1B	BEQ	\$1C9F					
1C84-	C6 18	DEC	\$18					
1C86-	A4 C6	LDY	\$C6					
1C88-	D0 15	BNE	\$1C9F					
1C8A-	F0 36	BEQ	\$1CC2					
1C8C-	C4 C4	CPY	\$C4					
1C8E-	F0 0F	BEQ	\$1C9F					
1C90-	B1 C2	LDA	(\$C2),Y					
1C92-	D0 07	BNE	\$1C9B					
1C94-	88	DEY						
1C95-	C4 C4	CPY	\$C4					
1C97-	D0 F7	BNE	\$1C90					
1C99-	F0 04	BEQ	\$1C9F					
1C9B-	C6 19	DEC	\$19					
1C9D-	A4 C4	LDY	\$C4					
1C9F-	B1 C2	LDA	(\$C2),Y					
1CA1-	51 C0	EOR	(\$C0),Y					
1CA3-	F0 16	BEQ	\$1CBB					
1CA5-	AA	TAX						
1CA6-	31 C0	AND	(\$C0),Y					
1CA8-	F0 0B	BEQ	\$1CB5					
1CAA-	A5 18	LDA	\$18					
1CAC-	D0 1E	BNE	\$1CCC					

1D15-	D0 FA	BNE	\$1D11			
1D17-	4C F1 D0	JMP	\$D0F1			
			pCode=\$97 SGS			
	[\$D91A]					
1D1A-	BA	TSX				
1D1B-	BD 02 01	LDA	\$0102,X			
1D1E-	48	PHA				
1D1F-	BD 01 01	LDA	\$0101,X			
1D22-	48	PHA				
			pCode=\$94 SRS			
	[\$D923]					
1D23-	68	PLA				
1D24-	85 C0	STA	\$C0			
1D26-	29 0F	AND	#\$0F			
1D28-	A8	TAY				
1D29-	68	PLA				
1D2A-	85 C1	STA	\$C1			
1D2C-	4A	LSR				
1D2D-	D0 63	BNE	\$1D92			
1D2F-	68	PLA				
1D30-	85 C2	STA	\$C2			
1D32-	29 0F	AND	#\$0F			
1D34-	AA	TAX				
1D35-	68	PLA				
1D36-	85 C3	STA	\$C3			
1D38-	4A	LSR				
1D39-	D0 57	BNE	\$1D92			
1D3B-	A5 C0	LDA	\$C0			
1D3D-	C5 C2	CMP	\$C2			
1D3F-	A5 C1	LDA	\$C1			
1D41-	E5 C3	SBC	\$C3			
1D43-	90 4A	BCC	\$1D8F			
1D45-	46 C3	LSR	\$C3			
1D47-	A5 C2	LDA	\$C2			
1D49-	6A	ROR				
1D4A-	4A	LSR				
1D4B-	4A	LSR				
1D4C-	4A	LSR				
1D4D-	85 C3	STA	\$C3			
1D4F-	46 C1	LSR	\$C1			
1D51-	A5 C0	LDA	\$C0			
1D53-	6A	ROR				
1D54-	4A	LSR				
1D55-	4A	LSR				
1D56-	4A	LSR				
1D57-	85 C1	STA	\$C1			
1D59-	B9 F9 FA	LDA	\$FAF9,Y			
1D5C-	48	PHA				
1D5D-	B9 01 FB	LDA	\$FB01,Y			
1D60-	48	PHA				
1D61-	38	SEC				
1D62-	A5 C1	LDA	\$C1			
1D64-	E5 C3	SBC	\$C3			
1D66-	A8	TAY				
1D67-	F0 07	BEQ	\$1D70			
1D69-	A9 FF	LDA	#\$FF			
1D6B-	48	PHA				
1D6C-	48	PHA				
1D6D-	88	DEY				
1D6E-	D0 FB	BNE	\$1D6B			
1D70-	68	PLA				
1D71-	A8	TAY				

1EA3-	BD 03 01	LDA	\$0103,X				
1EA6-	FD 01 01	SBC	\$0101,X				
1EA9-	9D 03 01	STA	\$0103,X				
1EAC-	E8	INX					
1EAD-	9A	TXS					
1EAE-	4C 97 00	JMP	\$0097				
pCode=\$8F MPI							
[\$DAB1]							
1EB1-	68	PLA					
1EB2-	85 14	STA	\$14				
1EB4-	68	PLA					
1EB5-	85 15	STA	\$15				
1EB7-	68	PLA					
1EB8-	85 12	STA	\$12				
1EBA-	68	PLA					
1EBB-	85 13	STA	\$13				
1EBD-	10 1D	BPL	\$1EDC				
1EBF-	A5 15	LDA	\$15				
1EC1-	10 19	BPL	\$1EDC				
1EC3-	38	SEC					
1EC4-	A9 00	LDA	#\$00				
1EC6-	E5 12	SBC	\$12				
1EC8-	85 12	STA	\$12				
1ECA-	A9 00	LDA	#\$00				
1ECC-	E5 13	SBC	\$13				
1ECE-	85 13	STA	\$13				
1ED0-	A9 00	LDA	#\$00				
1ED2-	E5 14	SBC	\$14				
1ED4-	85 14	STA	\$14				
1ED6-	A9 00	LDA	#\$00				
1ED8-	E5 15	SBC	\$15				
1EDA-	85 15	STA	\$15				
1EDC-	20 A9 DB	JSR	\$DBA9				
1EDF-	A5 17	LDA	\$17				
1EE1-	48	PHA					
1EE2-	A5 16	LDA	\$16				
1EE4-	4C 96 00	JMP	\$0096				
pCode=\$98 SQI							
[\$DAE7]							
1EE7-	68	PLA					
1EE8-	85 14	STA	\$14				
1EEA-	85 12	STA	\$12				
1EEC-	68	PLA					
1EED-	85 15	STA	\$15				
1EEF-	85 13	STA	\$13				
1EF1-	4C C1 DA	JMP	\$DAC1				
pCode=\$86 DVI							
[\$DAF4]							
1EF4-	68	PLA					
1EF5-	85 0C	STA	\$0C				
1EF7-	68	PLA					
1EF8-	85 0D	STA	\$0D				
1EFA-	68	PLA					
1EFB-	85 0E	STA	\$0E				
1EFD-	68	PLA					
1EFE-	85 0F	STA	\$0F				
1F00-	45 0D	EOR	\$0D				
1F02-	08	PHP					
1F03-	20 0F DC	JSR	\$DC0F				
1F06-	28	PLP					
1F07-	10 0D	BPL	\$1F16				

1F78-	4C 97 00	JMP	\$0097						
pCode=\$84 LAND									
[\$DB7B]									
1F7B-	BA	TSX							
1F7C-	68	PLA							
1F7D-	3D 03 01	AND	\$0103,X						
1F80-	9D 03 01	STA	\$0103,X						
1F83-	68	PLA							
1F84-	3D 04 01	AND	\$0104,X						
1F87-	9D 04 01	STA	\$0104,X						
1F8A-	4C 97 00	JMP	\$0097						
pCode=\$8D LOR									
[\$DB8D]									
1F8D-	BA	TSX							
1F8E-	68	PLA							
1F8F-	1D 03 01	ORA	\$0103,X						
1F92-	9D 03 01	STA	\$0103,X						
1F95-	68	PLA							
1F96-	1D 04 01	ORA	\$0104,X						
1F99-	9D 04 01	STA	\$0104,X						
1F9C-	4C 97 00	JMP	\$0097						
pCode=\$93 LNOT									
[\$DB9F]									
1F9F-	68	PLA							
1FA0-	49 FF	EOR	#\$FF						
1FA2-	AA	TAX							
1FA3-	68	PLA							
1FA4-	49 FF	EOR	#\$FF						
1FA6-	4C 94 00	JMP	\$0094						
1FA9-	A9 00	LDA	#\$00						
1FAB-	85 17	STA	\$17						
1FAD-	A6 15	LDX	\$15						
1FAF-	D0 1A	BNE	\$1FCB						
1FB1-	A4 13	LDY	\$13						
1FB3-	D0 24	BNE	\$1FD9						
1FB5-	A0 08	LDY	#\$08						
1FB7-	0A	ASL							
1FB8-	26 17	ROL	\$17						
1FBA-	06 14	ASL	\$14						
1FBC-	90 07	BCC	\$1FC5						
1FBE-	18	CLC							
1FBF-	65 12	ADC	\$12						
1FC1-	90 02	BCC	\$1FC5						
1FC3-	E6 17	INC	\$17						
1FC5-	88	DEY							
1FC6-	D0 EF	BNE	\$1FB7						
1FC8-	85 16	STA	\$16						
1FCA-	60	RTS							
1FCB-	A4 13	LDY	\$13						
1FCD-	D0 24	BNE	\$1FF3						
1FCF-	86 13	STX	\$13						
1FD1-	A6 14	LDX	\$14						
1FD3-	A4 12	LDY	\$12						
1FD5-	86 12	STX	\$12						
1FD7-	84 14	STY	\$14						
1FD9-	A0 08	LDY	#\$08						
1FDB-	0A	ASL							
1FDC-	26 17	ROL	\$17						
1FDE-	06 14	ASL	\$14						
1FE0-	90 0B	BCC	\$1FED						

1FE2-	18	CLC							
1FE3-	65 12	ADC	\$12						
1FE5-	AA	TAX							
1FE6-	A5 17	LDA	\$17						
1FE8-	65 13	ADC	\$13						
1FEA-	85 17	STA	\$17						
1FEC-	8A	TXA							
1FED-	88	DEY							
1FEE-	D0 EB	BNE	\$1FDB						
1FF0-	85 16	STA	\$16						
1FF2-	60	RTS							
1FF3-	A0 10	LDY	#\$10						
1FF5-	0A	ASL							
1FF6-	26 17	ROL	\$17						
1FF8-	06 14	ASL	\$14						
1FFA-	26 15	ROL	\$15						
1FFC-	90 0B	BCC	\$2009						
1FFE-	18	CLC							
1FFF-	65 12	ADC	\$12						
2001-	AA	TAX							
2002-	A5 17	LDA	\$17						
2004-	65 13	ADC	\$13						
2006-	85 17	STA	\$17						
2008-	8A	TXA							
2009-	88	DEY							
200A-	D0 E9	BNE	\$1FF5						
200C-	85 16	STA	\$16						
200E-	60	RTS							
200F-	A4 0D	LDY	\$0D						
2011-	D0 05	BNE	\$2018						
2013-	A6 0C	LDX	\$0C						
2015-	F0 2A	BEQ	\$2041						
2017-	98	TYA							
2018-	10 0D	BPL	\$2027						
201A-	38	SEC							
201B-	A9 00	LDA	#\$00						
201D-	E5 0C	SBC	\$0C						
201F-	85 0C	STA	\$0C						
2021-	A9 00	LDA	#\$00						
2023-	E5 0D	SBC	\$0D						
2025-	85 0D	STA	\$0D						
2027-	A5 0F	LDA	\$0F						
2029-	10 0D	BPL	\$2038						
202B-	38	SEC							
202C-	A9 00	LDA	#\$00						
202E-	E5 0E	SBC	\$0E						
2030-	85 0E	STA	\$0E						
2032-	A9 00	LDA	#\$00						
2034-	E5 0F	SBC	\$0F						
2036-	85 0F	STA	\$0F						
2038-	A8	TAY							
2039-	A6 0E	LDX	\$0E						
203B-	E4 0C	CPX	\$0C						
203D-	E5 0D	SBC	\$0D						
203F-	B0 0B	BCS	\$204C						
2041-	A9 00	LDA	#\$00						
2043-	85 0E	STA	\$0E						
2045-	85 0F	STA	\$0F						
2047-	86 10	STX	\$10						
2049-	84 11	STY	\$11						
204B-	60	RTS							
204C-	98	TYA							
204D-	D0 07	BNE	\$2056						
204F-	84 0E	STY	\$0E						

2051-	86 0F	STX	\$0F						
2053-	A0 08	LDY	#\$08						
2055-	2C A0 10	BIT	\$10A0						
2058-	A9 00	LDA	#\$00						
205A-	85 11	STA	\$11						
205C-	06 0E	ASL	\$0E						
205E-	26 0F	ROL	\$0F						
2060-	2A	ROL							
2061-	26 11	ROL	\$11						
2063-	AA	TAX							
2064-	C5 0C	CMP	\$0C						
2066-	A5 11	LDA	\$11						
2068-	E5 0D	SBC	\$0D						
206A-	90 08	BCC	\$2074						
206C-	85 11	STA	\$11						
206E-	8A	TXA							
206F-	E5 0C	SBC	\$0C						
2071-	AA	TAX							
2072-	E6 0E	INC	\$0E						
2074-	8A	TXA							
2075-	88	DEY							
2076-	D0 E4	BNE	\$205C						
2078-	85 10	STA	\$10						
207A-	60	RTS							

pCode=\$9E CSP Call Standard Procedure									
[\$DC7B]									
207B-	A0 01	LDY	#\$01	Get <UB>	(following \$9E)	as Pascal Procedure			
207D-	B1 9E	LDA	(\$9E),Y						
207F-	AA	TAX							
2080-	BD 80 FE	LDA	\$FE80,X	For example,	9E 06 ==	UNITWRITE ==	\$DEBO		
2083-	85 AD	STA	\$AD						
2085-	BD A9 FE	LDA	\$FEA9,X						
2088-	85 AE	STA	\$AE						
208A-	6C AD 00	JMP	(\$00AD)						

FILLCHAR (from CSP 9E 0A)									
[\$DC8D]									
208D-	68	PLA							
208E-	A8	TAY							
208F-	68	PLA							
2090-	68	PLA							
2091-	85 CC	STA	\$CC						
2093-	68	PLA							
2094-	85 CD	STA	\$CD						
2096-	BA	TSX							
2097-	18	CLC							
2098-	68	PLA							
2099-	7D 03 01	ADC	\$0103,X						
209C-	85 C8	STA	\$C8						
209E-	68	PLA							
209F-	7D 04 01	ADC	\$0104,X						
20A2-	85 C9	STA	\$C9						
20A4-	68	PLA							
20A5-	68	PLA							
20A6-	98	TYA							
20A7-	A0 00	LDY	#\$00						
20A9-	A6 CD	LDX	\$CD						
20AB-	F0 0A	BEQ	\$20B7						
20AD-	91 C8	STA	(\$C8),Y						
20AF-	C8	INY							
20B0-	D0 FB	BNE	\$20AD						
20B2-	E6 C9	INC	\$C9						
20B4-	CA	DEX							

20B5-	D0 F6	BNE	\$20AD						
20B7-	A6 CC	LDX	\$CC						
20B9-	F0 06	BEQ	\$20C1						
20BB-	91 C8	STA	(\$C8),Y						
20BD-	C8	INY							
20BE-	CA	DEX							
20BF-	D0 FA	BNE	\$20BB						
20C1-	4C F1 D0	JMP	\$D0F1						
20C4-	68	PLA							
20C5-	68	PLA							
20C6-	BA	TSX							
20C7-	18	CLC							
20C8-	68	PLA							
20C9-	7D 03 01	ADC	\$0103,X						
20CC-	85 C8	STA	\$C8						
20CE-	85 CA	STA	\$CA						
20D0-	68	PLA							
20D1-	7D 04 01	ADC	\$0104,X						
20D4-	85 C9	STA	\$C9						
20D6-	85 CB	STA	\$CB						
20D8-	68	PLA							
20D9-	68	PLA							
20DA-	68	PLA							
20DB-	A8	TAY							
20DC-	68	PLA							
20DD-	68	PLA							
20DE-	6A	ROR							
20DF-	4A	LSR							
20E0-	85 1A	STA	\$1A						
20E2-	24 1A	BIT	\$1A						
20E4-	68	PLA							
20E5-	AA	TAX							
20E6-	68	PLA							
20E7-	85 CD	STA	\$CD						
20E9-	30 3B	BMI	\$2126						
20EB-	8A	TXA							
20EC-	F0 02	BEQ	\$20F0						
20EE-	E6 CD	INC	\$CD						
20F0-	05 CD	ORA	\$CD						
20F2-	F0 2C	BEQ	\$2120						
20F4-	98	TYA							
20F5-	A0 00	LDY	#\$00						
20F7-	D1 C8	CMP	(\$C8),Y						
20F9-	F0 04	BEQ	\$20FF						
20FB-	50 04	BVC	\$2101						
20FD-	70 11	BVS	\$2110						
20FF-	50 0F	BVC	\$2110						
2101-	C8	INY							
2102-	D0 02	BNE	\$2106						
2104-	E6 C9	INC	\$C9						
2106-	CA	DEX							
2107-	D0 EE	BNE	\$20F7						
2109-	C6 CD	DEC	\$CD						
210B-	D0 EA	BNE	\$20F7						
210D-	18	CLC							
210E-	F0 01	BEQ	\$2111						
2110-	38	SEC							
2111-	98	TYA							
2112-	65 C8	ADC	\$C8						
2114-	90 02	BCC	\$2118						
2116-	E6 C9	INC	\$C9						
2118-	38	SEC							
2119-	E5 CA	SBC	\$CA						
211B-	AA	TAX							

211C-	A5 C9	LDA	\$C9						
211E-	E5 CB	SBC	\$CB						
2120-	48	PHA							
2121-	8A	TXA							
2122-	48	PHA							
2123-	4C F1 D0	JMP	\$D0F1						
2126-	98	TYA							
2127-	A0 00	LDY	#\$00						
2129-	D1 C8	CMP	(\$C8),Y						
212B-	F0 04	BEQ	\$2131						
212D-	50 04	BVC	\$2133						
212F-	70 12	BVS	\$2143						
2131-	50 10	BVC	\$2143						
2133-	C0 00	CPY	#\$00						
2135-	D0 02	BNE	\$2139						
2137-	C6 C9	DEC	\$C9						
2139-	88	DEY							
213A-	E8	INX							
213B-	D0 EC	BNE	\$2129						
213D-	E6 CD	INC	\$CD						
213F-	D0 E8	BNE	\$2129						
2141-	F0 07	BEQ	\$214A						
2143-	C0 00	CPY	#\$00						
2145-	D0 02	BNE	\$2149						
2147-	C6 C9	DEC	\$C9						
2149-	88	DEY							
214A-	18	CLC							
214B-	90 C4	BCC	\$2111						
214D-	68	PLA							
214E-	85 CC	STA	\$CC						
2150-	68	PLA							
2151-	85 CD	STA	\$CD						
2153-	BA	TSX							
2154-	18	CLC							
2155-	68	PLA							
2156-	7D 03 01	ADC	\$0103,X						
2159-	85 CA	STA	\$CA						
215B-	68	PLA							
215C-	7D 04 01	ADC	\$0104,X						
215F-	85 CB	STA	\$CB						
2161-	68	PLA							
2162-	68	PLA							
2163-	BA	TSX							
2164-	18	CLC							
2165-	68	PLA							
2166-	7D 03 01	ADC	\$0103,X						
2169-	85 C8	STA	\$C8						
216B-	68	PLA							
216C-	7D 04 01	ADC	\$0104,X						
216F-	85 C9	STA	\$C9						
2171-	68	PLA							
2172-	68	PLA							
2173-	B1 9E	LDA	(\$9E),Y						
2175-	C9 02	CMP	#\$02						
2177-	F0 06	BEQ	\$217F						
				\$C8.C9	Source				
				\$CA.CB	Destination				
				\$CC.CD	Length				
					Block Transfer				
2179-	20 24 D0	JSR	\$D024						
217C-	4C F1 D0	JMP	\$D0F1						
217F-	20 4E D0	JSR	\$D04E						
2182-	4C F1 D0	JMP	\$D0F1						
2185-	68	PLA							
2186-	0A	ASL							

2187-	85 CC	STA	\$CC						
2189-	68	PLA							
218A-	2A	ROL							
218B-	85 CD	STA	\$CD						
218D-	68	PLA							
218E-	85 C8	STA	\$C8						
2190-	68	PLA							
2191-	85 C9	STA	\$C9						
2193-	88	DEY							
2194-	18	CLC							
2195-	A5 B4	LDA	\$B4						
2197-	91 C8	STA	(\$C8),Y						
2199-	65 CC	ADC	\$CC						
219B-	85 B4	STA	\$B4						
219D-	C8	INY							
219E-	A5 B5	LDA	\$B5						
21A0-	91 C8	STA	(\$C8),Y						
21A2-	65 CD	ADC	\$CD						
21A4-	85 B5	STA	\$B5						
21A6-	20 4F D5	JSR	\$D54F						
21A9-	4C F1 D0	JMP	\$D0F1						
21AC-	68	PLA							
21AD-	85 C8	STA	\$C8						
21AF-	68	PLA							
21B0-	85 C9	STA	\$C9						
21B2-	A5 B5	LDA	\$B5						
21B4-	91 C8	STA	(\$C8),Y						
21B6-	88	DEY							
21B7-	A5 B4	LDA	\$B4						
21B9-	91 C8	STA	(\$C8),Y						
21BB-	4C F1 D0	JMP	\$D0F1						
21BE-	68	PLA							
21BF-	85 C8	STA	\$C8						
21C1-	68	PLA							
21C2-	85 C9	STA	\$C9						
21C4-	B1 C8	LDA	(\$C8),Y						
21C6-	85 B5	STA	\$B5						
21C8-	88	DEY							
21C9-	B1 C8	LDA	(\$C8),Y						
21CB-	85 B4	STA	\$B4						
21CD-	20 4F D5	JSR	\$D54F						
21D0-	4C F1 D0	JMP	\$D0F1						

MEMAVAIL									
21D3-	38	SEC							
21D4-	A5 BE	LDA	\$BE						
21D6-	E5 B4	SBC	\$B4						
21D8-	AA	TAX							
21D9-	A5 BD	LDA	\$BD						
21DB-	E5 B5	SBC	\$B5						
21DD-	4A	LSR							
21DE-	48	PHA							
21DF-	8A	TXA							
21E0-	6A	ROR							
21E1-	48	PHA							
21E2-	4C F1 D0	JMP	\$D0F1						

21E5-	68	PLA							
21E6-	AA	TAX							
21E7-	68	PLA							
21E8-	8A	TXA							
21E9-	20 14 DE	JSR	\$DE14						
21EC-	4C F1 D0	JMP	\$D0F1						

21EF-	68	PLA					
21F0-	AA	TAX					
21F1-	68	PLA					
21F2-	8A	TXA					
21F3-	20 F9 DD	JSR	\$DDF9				
21F6-	4C F1 D0	JMP	\$D0F1				
21F9-	A8	TAY					
21FA-	F0 17	BEQ	\$2213				
21FC-	BE 19 0C	LDX	\$0C19,Y				
21FF-	DE 9A 0C	DEC	\$0C9A,X				
2202-	D0 0F	BNE	\$2213				
2204-	18	CLC					
2205-	A5 BE	LDA	\$BE				
2207-	7D 5A 0C	ADC	\$0C5A,X				
220A-	85 BE	STA	\$BE				
220C-	A5 BF	LDA	\$BF				
220E-	7D 6A 0C	ADC	\$0C6A,X				
2211-	85 BF	STA	\$BF				
2213-	60	RTS					

To here processing CXP							
From \$D59F							
A = Segment# (e.g. 1, 7, 8, 9, ...)							
[\$DE14]							
2214-	A8	TAY		Segment#	(1 first time, #C next time).		
2215-	BE 19 0C	LDX	\$0C19,Y	Convert Seg#	to C3A index (0, 1, 2, 3...)		
2218-	BD 9A 0C	LDA	\$0C9A,X	Use Count			
221B-	D0 16	BNE	\$2233	Already loaded?	\$DE33		
221D-	38	SEC		Need to load this segment			
221E-	A5 BE	LDA	\$BE	KP (\$BE.BF)	== Stack ptr		
2220-	E9 02	SBC	#\$02	Calc high end of Segment	in memory		
2222-	9D 7A 0C	STA	\$0C7A,X	Save Seg Dictionary	in Seg Load Tables		
2225-	A5 BF	LDA	\$BF	\$C7A,x \$C8A,x	x == [\$0..F]		
2227-	E9 00	SBC	#\$00				
2229-	9D 8A 0C	STA	\$0C8A,X				
222C-	8A	TXA					
222D-	48	PHA		Save segment index	(0..F)		
222E-	20 37 DE	JSR	\$DE37	JSR \$DE37			
2231-	68	PLA		A := segment index	(0..F)		
2232-	AA	TAX					
[\$DE33]							
2233-	FE 9A 0C	INC	\$0C9A,X	Segment "use" count			
2236-	60	RTS					

X == Segment# index into C3A...							
[\$DE37]							
2237-	BD 3A 0C	LDA	\$0C3A,X	\$0C3A,X	is Disk ADDR		
223A-	85 34	STA	\$34				
223C-	BD 4A 0C	LDA	\$0C4A,X	\$0C4A,X	is Disk ADDR		
223F-	85 35	STA	\$35				
2241-	05 34	ORA	\$34				
2243-	D0 0B	BNE	\$2250	Disk Addr <>	0, \$DE50		
2245-	8A	TXA					
2246-	A2 00	LDX	#\$00	Error, \$FE00			
2248-	4C 00 FE	JMP	\$FE00				
224B-	A2 02	LDX	#\$02	Error, \$FD00			
224D-	4C 00 FD	JMP	\$FD00				
X == Segment# index into C3A...							
[\$DE50]							
2250-	BD 5A 0C	LDA	\$0C5A,X	\$0C5A,X	is Disk Length		

	A2 00	LDX	#00	Pull parameters off in reverse order			
22B5-	68	PLA					
22B6-	85 2E	STA	\$2E	Mode			
22B8-	68	PLA					
22B9-	85 2F	STA	\$2F				
22BB-	68	PLA					
22BC-	85 34	STA	\$34	Block Number to Read/Write			
22BE-	68	PLA					
22BF-	85 35	STA	\$35				
22C1-	68	PLA					
22C2-	85 32	STA	\$32	Length of I/O			
22C4-	68	PLA		(for UNIT = #D, this is the function)			
22C5-	85 33	STA	\$33				
22C7-	68	PLA					
22C8-	85 30	STA	\$30	Dest Array subscript			
22CA-	68	PLA					
22CB-	85 31	STA	\$31				
22CD-	18	CLC					
22CE-	68	PLA					
22CF-	65 30	ADC	\$30	Dest Array			
22D1-	85 30	STA	\$30				
22D3-	68	PLA					
22D4-	65 31	ADC	\$31				
22D6-	85 31	STA	\$31				
22D8-	68	PLA					
22D9-	85 2D	STA	\$2D	Unit (#D special for Wiz IV)			
22DB-	68	PLA					
22DC-	A8	TAY					
[\$DEDD]							
22DD-	20 E5 DE	JSR	\$DEE5	JSR \$DEE5			
22E0-	86 F0	STX	\$F0				
22E2-	4C F1 D0	JMP	\$D0F1	All done, advance IPC by 2, and continue			
[\$DEE5]							
22E5-	20 7D E7	JSR	\$E77D	Check keyboard for input			
22E8-	A5 2D	LDA	\$2D	UNIT = 0?			
22EA-	F0 13	BEQ	\$22FF	Yes, \$DEFF			
22EC-	C9 0F	CMP	#\$0F	UNIT > #D? (#D is valid and #E !?)			
22EE-	B0 0F	BCS	\$22FF	Yes, \$DEFF			
22F0-	0A	ASL		UNIT = 1..D (or #E!?)			
22F1-	A8	TAY					
22F2-	B9 06 DF	LDA	\$DF06,Y				
22F5-	85 AD	STA	\$AD				
22F7-	B9 07 DF	LDA	\$DF07,Y				
22FA-	85 AE	STA	\$AE				
22FC-	6C AD 00	JMP	(\$00AD)	UNIT \$D: (\$ED10)			
[\$DEFF]							
22FF-	8A	TXA					
2300-	A8	TAY					
2301-	A5 2D	LDA	\$2D				
2303-	A2 12	LDX	#\$12				
2305-	4C	JMP	\$FE00				
[\$DF06, \$DF07]							
	00 FE						
	BC E7						
	BC E7						
	FF DE	3		\$DEFF			
	5C E8	Device	4 (S6, D1)				
	FE E7		5 (S6, D2)				
	FF DE	6		\$DEFF Printer			

	FF DE	7		\$DEFF	REMIN				
	FF DE	8		\$DEFF	REMOUT				
	FE E7	9.							
	FE E7	10.							
	FE E7	11.							
	FE E7	12.							
	10 ED	#\$D	13.		\$ED10				

Clear Primary Text Screen to blanks									
\$FFF4 points here									
JSR from \$BD4F after I/O error reading Dir									
during boot									
[\$DF22]									
2322	A2 17	LDX	#\$17	24	vertical rows				
2324-	BD 61 E2	LDA	\$E261,X	ptr	lines for primary/secondary text pages				
2327-	09 04	ORA	#\$04	page	1				
2329-	85 C9	STA	\$C9						
232B-	BD 79 E2	LDA	\$E279,X						
232E-	85 C8	STA	\$C8						
2330-	A9 A0	LDA	#\$A0	" "					
2332-	A0 27	LDY	#\$27	40	horizontal characters				
2334-	91 C8	STA	(\$C8),Y						
2336-	88	DEY							
2337-	10 FB	BPL	\$2334						
2339-	CA	DEX							
233A-	10 E8	BPL	\$2324						
233C-	60	RTS							

233D-	20 22 DF	JSR	\$DF22						
2340-	4C 00 D0	JMP	\$D000						

2343-	00	BRK							
2344-	00	BRK							
2345-	00	BRK							
2346-	00	BRK							
2347-	00	BRK							
2348-	00	BRK							
2349-	00	BRK							
234A-	00	BRK							
234B-	00	BRK							
234C-	00	BRK							
234D-	00	BRK							
234E-	00	BRK							
234F-	00	BRK							
2350-	00	BRK							
2351-	00	BRK							
2352-	00	BRK							
2353-	00	BRK							
2354-	00	BRK							
2355-	00	BRK							
2356-	00	BRK							
2357-	00	BRK							
2358-	00	BRK							
2359-	00	BRK							
235A-	00	BRK							
235B-	00	BRK							
235C-	00	BRK							
235D-	00	BRK							
235E-	00	BRK							
235F-	00	BRK							

2360-	00	BRK							
2361-	00	BRK							
2362-	00	BRK							
2363-	00	BRK							
2364-	00	BRK							
2365-	00	BRK							
2366-	00	BRK							
2367-	00	BRK							
2368-	00	BRK							
2369-	00	BRK							
236A-	00	BRK							
236B-	00	BRK							
236C-	00	BRK							
236D-	00	BRK							
236E-	00	BRK							
236F-	00	BRK							
2370-	00	BRK							
2371-	00	BRK							
2372-	00	BRK							
2373-	00	BRK							
2374-	00	BRK							
2375-	00	BRK							
2376-	00	BRK							
2377-	00	BRK							
2378-	00	BRK							
2379-	00	BRK							
237A-	00	BRK							
237B-	00	BRK							
237C-	00	BRK							
237D-	00	BRK							
237E-	00	BRK							
237F-	00	BRK							
2380-	00	BRK							
2381-	00	BRK							
2382-	00	BRK							
2383-	00	BRK							
2384-	00	BRK							
2385-	00	BRK							
2386-	00	BRK							
2387-	00	BRK							
2388-	00	BRK							
2389-	00	BRK							
238A-	00	BRK							
238B-	00	BRK							
238C-	00	BRK							
238D-	00	BRK							
238E-	00	BRK							
238F-	00	BRK							
2390-	00	BRK							
2391-	00	BRK							
2392-	00	BRK							
2393-	00	BRK							
2394-	00	BRK							
2395-	00	BRK							
2396-	00	BRK							
2397-	00	BRK							
2398-	00	BRK							
2399-	00	BRK							
239A-	00	BRK							
239B-	00	BRK							
239C-	00	BRK							
239D-	00	BRK							
239E-	00	BRK							
239F-	00	BRK							

23A0-	00	BRK							
23A1-	00	BRK							
23A2-	00	BRK							
23A3-	00	BRK							
23A4-	00	BRK							
23A5-	00	BRK							
23A6-	00	BRK							
23A7-	00	BRK							
23A8-	00	BRK							
23A9-	00	BRK							
23AA-	00	BRK							
23AB-	00	BRK							
23AC-	00	BRK							
23AD-	00	BRK							
23AE-	00	BRK							
23AF-	00	BRK							
23B0-	00	BRK							
23B1-	00	BRK							
23B2-	00	BRK							
23B3-	00	BRK							
23B4-	00	BRK							
23B5-	00	BRK							
23B6-	00	BRK							
23B7-	00	BRK							
23B8-	00	BRK							
23B9-	00	BRK							
23BA-	00	BRK							
23BB-	00	BRK							
23BC-	00	BRK							
23BD-	00	BRK							
23BE-	00	BRK							
23BF-	00	BRK							
23C0-	00	BRK							
23C1-	00	BRK							
23C2-	00	BRK							
23C3-	00	BRK							
23C4-	00	BRK							
23C5-	00	BRK							
23C6-	00	BRK							
23C7-	00	BRK							
23C8-	00	BRK							
23C9-	00	BRK							
23CA-	00	BRK							
23CB-	00	BRK							
23CC-	00	BRK							
23CD-	00	BRK							
23CE-	00	BRK							
23CF-	00	BRK							
23D0-	00	BRK							
23D1-	00	BRK							
23D2-	00	BRK							
23D3-	00	BRK							
23D4-	00	BRK							
23D5-	00	BRK							
23D6-	00	BRK							
23D7-	00	BRK							
23D8-	00	BRK							
23D9-	00	BRK							
23DA-	00	BRK							
23DB-	00	BRK							
23DC-	00	BRK							
23DD-	00	BRK							
23DE-	00	BRK							
23DF-	00	BRK							

23E0-	00	BRK					
23E1-	00	BRK					
23E2-	00	BRK					
23E3-	00	BRK					
23E4-	00	BRK					
23E5-	00	BRK					
23E6-	00	BRK					
23E7-	00	BRK					
23E8-	00	BRK					
23E9-	00	BRK					
23EA-	00	BRK					
23EB-	00	BRK					
23EC-	00	BRK					
23ED-	00	BRK					
23EE-	00	BRK					
23EF-	00	BRK					
23F0-	00	BRK					
23F1-	00	BRK					
23F2-	00	BRK					
23F3-	00	BRK					
23F4-	00	BRK					
23F5-	00	BRK					
23F6-	00	BRK					
23F7-	00	BRK					
23F8-	00	BRK					
23F9-	00	BRK					
23FA-	00	BRK					
23FB-	00	BRK					
23FC-	00	BRK					
23FD-	00	BRK					
23FE-	00	BRK					
23FF-	00	BRK					

[\$E000]							
2400-	A2 00	LDX	#\$00				
2402-	A0 02	LDY	#\$02				
2404-	88	DEY					
2405-	B1 30	LDA	(\$30),Y				
2407-	4A	LSR					
2408-	3E AA 0C	ROL	\$0CAA,X				
240B-	4A	LSR					
240C-	3E AA 0C	ROL	\$0CAA,X				
240F-	99 00 03	STA	\$0300,Y				
2412-	E8	INX					
2413-	E0 56	CPX	#\$56				
2415-	90 ED	BCC	\$2404				
2417-	A2 00	LDX	#\$00				
2419-	98	TYA					
241A-	D0 E8	BNE	\$2404				
241C-	A2 55	LDX	#\$55				
241E-	BD AA 0C	LDA	\$0CAA,X				
2421-	29 3F	AND	#\$3F				
2423-	9D AA 0C	STA	\$0CAA,X				
2426-	CA	DEX					
2427-	10 F5	BPL	\$241E				
2429-	60	RTS					

Write to Disk							
[\$E02A]							
242A-	38	SEC					
242B-	A6 FB	LDX	§FB				
242D-	BD 8D C0	LDA	§C08D,X	Load Data Latch			
2430-	BD 8E C0	LDA	§C08E,X	Prepare Latch for input			

2433-	30 7D	BMI	\$24B2						
2435-	AD AA 0C	LDA	\$0CAA						
2438-	85 4B	STA	\$4B						
243A-	A9 FF	LDA	#\$FF						
243C-	9D 8F C0	STA	\$C08F,X	Prepare Latch for output					
243F-	1D 8C C0	ORA	\$C08C,X	Strobe Data Latch					
2442-	48	PHA							
2443-	68	PLA							
2444-	EA	NOP							
2445-	A0 04	LDY	#\$04						
2447-	48	PHA							
2448-	68	PLA							
2449-	20 B7 E0	JSR	\$E0B7						
244C-	88	DEY							
244D-	D0 F8	BNE	\$2447						
DATA FIELD									
244F-	A9 D5	LDA	#\$D5	#\$D5					
2451-	20 B6 E0	JSR	\$E0B6						
2454-	A9 AA	LDA	#\$AA	#\$AA					
2456-	20 B6 E0	JSR	\$E0B6						
2459-	A9 AD	LDA	#\$AD	#\$AD					
245B-	20 B6 E0	JSR	\$E0B6						
245E-	98	TYA							
245F-	A0 56	LDY	#\$56	86					
2461-	D0 03	BNE	\$2466						
2463-	B9 AA 0C	LDA	\$0CAA,Y	86 nibbles					
2466-	59 A9 0C	EOR	\$0CA9,Y						
2469-	AA	TAX							
246A-	BD 21 E2	LDA	\$E221,X						
246D-	AE F8 05	LDX	\$05F8						
2470-	9D 8D C0	STA	\$C08D,X	Load Data Latch					
2473-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch					
2476-	88	DEY							
2477-	D0 EA	BNE	\$2463						
2479-	A5 4B	LDA	\$4B						
247B-	EA	NOP							
247C-	59 00 03	EOR	\$0300,Y	256 nibbles					
247F-	AA	TAX							
2480-	BD 21 E2	LDA	\$E221,X						
2483-	AE F8 05	LDX	\$05F8						
2486-	9D 8D C0	STA	\$C08D,X	Load Data Latch					
2489-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch					
248C-	B9 00 03	LDA	\$0300,Y						
248F-	C8	INY							
2490-	D0 EA	BNE	\$247C						
2492-	AA	TAX							
2493-	BD 21 E2	LDA	\$E221,X						
2496-	A6 FB	LDX	\$FB						
2498-	20 B9 E0	JSR	\$E0B9	Epilogue					
249B-	A9 DE	LDA	#\$DE	#\$DE					
249D-	20 B6 E0	JSR	\$E0B6						
24A0-	A9 AA	LDA	#\$AA	#\$AA					
24A2-	20 B6 E0	JSR	\$E0B6						
24A5-	A9 EB	LDA	#\$EB	#\$EB					
24A7-	20 B6 E0	JSR	\$E0B6						
24AA-	A9 FF	LDA	#\$FF	#\$FF					
24AC-	20 B6 E0	JSR	\$E0B6						
24AF-	BD 8E C0	LDA	\$C08E,X	Prepare Latch for input					
24B2-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch					

24B5-	60	RTS						

[\$E0B6]								
24B6-	18	CLC						
24B7-	48	PHA						
24B8-	68	PLA						
24B9-	9D 8D C0	STA	\$C08D,X	Load Data Latch				
24BC-	1D 8C C0	ORA	\$C08C,X	Strobe Data Latch				
24BF-	60	RTS						

[\$E0C0] De-Nibblize								
24C0-	A0 00	LDY	#\$00					
24C2-	A2 56	LDX	#\$56					
24C4-	CA	DEX						
24C5-	30 FB	BMI	\$24C2					
24C7-	B9 00 03	LDA	\$0300,Y					
24CA-	5E AA 0C	LSR	\$0CAA,X					
24CD-	2A	ROL						
24CE-	5E AA 0C	LSR	\$0CAA,X					
24D1-	2A	ROL						
24D2-	91 30	STA	(\$30),Y	\$30.31 buffer				
24D4-	C8	INY						
24D5-	C4 47	CPY	\$47					
24D7-	D0 EB	BNE	\$24C4					
24D9-	60	RTS						

[\$E0DA] Read a Data Field								
24DA-	A6 FB	LDX	\$FB					
24DC-	A0 20	LDY	#\$20					
24DE-	88	DEY						
24DF-	F0 62	BEQ	\$2543					
24E1-	BD 8C C0	LDA	\$C08C,X					
24E4-	10 FB	BPL	\$24E1					
24E6-	49 D5	EOR	#\$D5	#\$D5				
24E8-	D0 F4	BNE	\$24DE					
24EA-	EA	NOP						
24EB-	BD 8C C0	LDA	\$C08C,X					
24EE-	10 FB	BPL	\$24EB					
24F0-	C9 AA	CMP	#\$AA	#\$AA				
24F2-	D0 F2	BNE	\$24E6					
24F4-	EA	NOP						
24F5-	BD 8C C0	LDA	\$C08C,X					
24F8-	10 FB	BPL	\$24F5					
24FA-	C9 AD	CMP	#\$AD	#\$AD				
24FC-	D0 E8	BNE	\$24E6					
24FE-	A9 00	LDA	#\$00					
2500-	A0 56	LDY	#\$56	256 + 86 nibbles per sector				
2502-	88	DEY						
2503-	84 4B	STY	\$4B					
2505-	BC 8C C0	LDY	\$C08C,X					
2508-	10 FB	BPL	\$2505					
250A-	59 00 E2	EOR	\$E200,Y					
250D-	A4 4B	LDY	\$4B					
250F-	99 AA 0C	STA	\$0CAA,Y					
2512-	D0 EE	BNE	\$2502					
2514-	84 4B	STY	\$4B					
2516-	BC 8C C0	LDY	\$C08C,X					
2519-	10 FB	BPL	\$2516					
251B-	59 00 E2	EOR	\$E200,Y					
251E-	A4 4B	LDY	\$4B					
2520-	99 00 03	STA	\$0300,Y					
2523-	C8	INY						
2524-	D0 EE	BNE	\$2514					

2526-	BC 8C C0	LDY	\$C08C,X						
2529-	10 FB	BPL	\$2526						
252B-	D9 00 E2	CMP	\$E200,Y						
252E-	D0 13	BNE	\$2543	bad checksum, \$2543					
2530-	BD 8C C0	LDA	\$C08C,X	Look for Epilogue					
2533-	10 FB	BPL	\$2530						
2535-	C9 DE	CMP	#\$DE	#\$DE					
2537-	D0 0A	BNE	\$2543						
2539-	EA	NOP							
253A-	BD 8C C0	LDA	\$C08C,X						
253D-	10 FB	BPL	\$253A						
253F-	C9 AA	CMP	#\$AA	#\$AA					
2541-	F0 5E	BEQ	\$25A1						
2543-	38	SEC		Error return					
2544-	60	RTS							

Read an Address Field									
JSR from \$E424									
[\$E145]									
2545-	A6 FB	LDX	\$FB						
2547-	A0 FC	LDY	#\$FC						
2549-	84 4B	STY	\$4B						
254B-	C8	INY							
254C-	D0 04	BNE	\$2552						
254E-	E6 4B	INC	\$4B						
2550-	F0 F1	BEQ	\$2543						
2552-	BD 8C C0	LDA	\$C08C,X	Strobe Data					
2555-	10 FB	BPL	\$2552						
2557-	C9 D5	CMP	#\$D5	#\$D5					
2559-	D0 F0	BNE	\$254B						
255B-	EA	NOP							
255C-	BD 8C C0	LDA	\$C08C,X						
255F-	10 FB	BPL	\$255C						
2561-	C9 AA	CMP	#\$AA	#\$AA					
2563-	D0 F2	BNE	\$2557						
2565-	A0 03	LDY	#\$03	Y := 3 for V/T/S					
2567-	BD 8C C0	LDA	\$C08C,X						
256A-	10 FB	BPL	\$2567						
256C-	C9 96	CMP	#\$96	#\$96					
256E-	D0 E7	BNE	\$2557						
D5 AA 96 is Address field									
[\$E170]									
Now get Volume, Track, Sector, Checksum									
2570-	A9 00	LDA	#\$00						
2572-	85 00	STA	\$00						
2574-	BD 8C C0	LDA	\$C08C,X						
2577-	10 FB	BPL	\$2574						
2579-	2A	ROL							
257A-	85 4B	STA	\$4B						
257C-	BD 8C C0	LDA	\$C08C,X						
257F-	10 FB	BPL	\$257C						
2581-	25 4B	AND	\$4B						
2583-	99 01 00	STA	\$0001,Y	\$04 \$03 \$02 \$01					
2586-	45 00	EOR	\$00	V T S C					
2588-	88	DEY							
2589-	10 E7	BPL	\$2572						
[\$E18B]									
258B-	A8	TAY							

258C-	D0 B5	BNE	\$2543	Bad checksum, \$2543				
258E-	BD 8C C0	LDA	\$C08C,X	Now check for EPILOGUE				
2591-	10 FB	BPL	\$258E	(but skip last byte \$EB)				
2593-	C9 DE	CMP	#\$DE	#\$DE				
2595-	D0 AC	BNE	\$2543					
2597-	EA	NOP						
2598-	BD 8C C0	LDA	\$C08C,X					
259B-	10 FB	BPL	\$2598					
259D-	C9 AA	CMP	#\$AA	#\$AA				
259F-	D0 A2	BNE	\$2543					
25A1-	18	CLC						
25A2-	60	RTS						

Move Disk Arm to Requested Track								
Called from \$E482 code (update prev track)								
0478 = Current track								
\$FB = Requested track								
Uses: \$01, \$4A, \$4B								
[\$E1A3]								
25A3-	A6 FB	LDX	\$FB	Requested track				
25A5-	CD 78 04	CMP	\$0478	On the requested track?				
25A8-	F0 53	BEQ	\$25FD	Yes, return.				
25AA-	A9 00	LDA	#\$00	No				
25AC-	85 4B	STA	\$4B					
25AE-	AD 78 04	LDA	\$0478	Current Track				
25B1-	85 01	STA	\$01					
25B3-	38	SEC						
25B4-	E5 4A	SBC	\$4A	Requested track (in 1/2 granularity)				
25B6-	F0 33	BEQ	\$25EB	Right track? Yes, final stepper and RTS				
25B8-	B0 07	BCS	\$25C1					
25BA-	49 FF	EOR	#\$FF	Move inner 1 track				
25BC-	EE 78 04	INC	\$0478	Increment Current Track				
25BF-	90 05	BCC	\$25C6					
25C1-	69 FE	ADC	#\$FE	Move outer 1 track				
25C3-	CE 78 04	DEC	\$0478	Decrement Current Track				
25C6-	C5 4B	CMP	\$4B					
25C8-	90 02	BCC	\$25CC					
25CA-	A5 4B	LDA	\$4B					
25CC-	C9 08	CMP	#\$08					
25CE-	B0 01	BCS	\$25D1					
25D0-	A8	TAY						
25D1-	38	SEC						
25D2-	20 EF E1	JSR	\$E1EF	Stepper Motor				
25D5-	B9 11 E2	LDA	\$E211,Y					
25D8-	20 00 E2	JSR	\$E200	Wait (A = wait time)				
25DB-	A5 01	LDA	\$01					
25DD-	18	CLC						
25DE-	20 F2 E1	JSR	\$E1F2	Stepper Motor				
25E1-	B9 19 E2	LDA	\$E219,Y					
25E4-	20 00 E2	JSR	\$E200	Wait (A = wait time)				
25E7-	E6 4B	INC	\$4B					
25E9-	D0 C3	BNE	\$25AE					
[\$E1EB]								

2650-	EC ED EE	CPX	\$EEED					
2653-	EF	???						
2654-	F2	???						
2655-	F3	???						
2656-	F4	???						
2657-	F5 F6	SBC	\$F6,X					
2659-	F7	???						
265A-	F9 FA FB	SBC	\$FBFA,Y					
265D-	FC	???						
265E-	FD FE FF	SBC	\$FFFE,X					

Table referenced from \$F1C6				Text Screen PTRs				

[\$E261]								
2661-	00	BRK						
2662-	00	BRK						
2663-	01							
	01	ORA	(\$01,X)					
2665-	02	???						
2666-	02	???						
2667-	03	???						
2668-	03	???						
2669-	00	BRK						
266A-	00	BRK						
266B-	01							
	01	ORA	(\$01,X)					
266D-	02	???						
266E-	02	???						
266F-	03	???						
2670-	03	???						
2671-	00	BRK						
2672-	00	BRK						
2673-	01							
	01	ORA	(\$01,X)					
2675-	02	???						
2676-	02	???						
2677-	03	???						
2678-	03	???						
Text Screen PTRs (?)								
Other 1/2 of \$E261 table								

[\$E279]								
2679-	00	BRK						
267A-	80	???						
267B-	00	BRK						
267C-	80	???						
267D-	00	BRK						
267E-	80	???						
267F-	00	BRK						
2680-	80	???						
2681-	28	PLP						
2682-	A8	TAY						
2683-	28	PLP						
2684-	A8	TAY						
2685-	28	PLP						
2686-	A8	TAY						
2687-	28	PLP						
2688-	A8	TAY						
2689-	50 D0	BVC	\$265B					
268B-	50 D0	BVC	\$265D					
268D-	50 D0	BVC	\$265F					
268F-	50 D0	BVC	\$2661					

2691-	00	BRK						
2692-	00	BRK						

2693-	00	BRK						
2694-	00	BRK						
2695-	00	BRK						
2696-	00	BRK						
2697-	01 98	ORA	(\$98,X)					
2699-	99 02 03	STA	\$0302,Y					
269C-	9C	???						
269D-	04	???						
269E-	05 06	ORA	\$06					
26A0-	A0 A1	LDY	#\$A1					
26A2-	A2 A3	LDX	#\$A3					
26A4-	A4 A5	LDY	\$A5					
26A6-	07	???						
26A7-	08	PHP						
26A8-	A8	TAY						
26A9-	A9 AA	LDA	#\$AA					
26AB-	09 0A	ORA	#\$0A					
26AD-	0B	???						
26AE-	0C	???						
26AF-	0D B0 B1	ORA	\$B1B0					
26B2-	0E 0F 10	ASL	\$100F					
26B5-	11 12	ORA	(\$12),Y					
26B7-	13	???						
26B8-	B8	CLV						
26B9-	14	???						
26BA-	15 16	ORA	\$16,X					
26BC-	17	???						
26BD-	18	CLC						
26BE-	19 1A C0	ORA	\$C01A,Y					
26C1-	C1 C2	CMP	(\$C2,X)					
26C3-	C3	???						
26C4-	C4 C5	CPY	\$C5					
26C6-	C6 C7	DEC	\$C7					
26C8-	C8	INY						
26C9-	C9 CA	CMP	#\$CA					
26CB-	1B	???						
26CC-	CC 1C 1D	CPY	\$1D1C					
26CF-	1E D0 D1	ASL	\$D1D0,X					
26D2-	D2	???						
26D3-	1F	???						
26D4-	D4	???						
26D5-	D5 20	CMP	\$20,X					
26D7-	21 D8	AND	(\$D8,X)					
26D9-	22	???						
26DA-	23	???						
26DB-	24 25	BIT	\$25					
26DD-	26 27	ROL	\$27					
26DF-	28	PLP						
26E0-	E0 E1	CPX	#\$E1					
26E2-	E2	???						
26E3-	E3	???						
26E4-	E4 29	CPX	\$29					
26E6-	2A	ROL						
26E7-	2B	???						
26E8-	E8	INX						
26E9-	2C 2D 2E	BIT	\$2E2D					
26EC-	2F	???						
26ED-	30 31	BMI	\$2720					
26EF-	32	???						
26F0-	F0 F1	BEQ	\$26E3					
26F2-	33	???						
26F3-	34	???						
26F4-	35 36	AND	\$36,X					
26F6-	37	???						

26F7-	38	SEC						
26F8-	F8	SED						
26F9-	39 3A 3B	AND	\$3B3A, Y					
26FC-	3C	???						
26FD-	3D 3E 3F	AND	\$3F3E, X					
2700-	38	SEC						
2701-	A6 FB	LDX	\$FB					
2703-	BD 8D C0	LDA	\$C08D, X					
2706-	BD 8E C0	LDA	\$C08E, X					
2709-	30 55	BMI	\$2760					
270B-	A5 2D	LDA	\$2D					
270D-	45 45	EOR	\$45					
270F-	45 46	EOR	\$46					
2711-	85 00	STA	\$00					
2713-	A9 FF	LDA	#\$FF					
2715-	9D 8F C0	STA	\$C08F, X					
2718-	DD 8C C0	CMP	\$C08C, X					
271B-	48	PHA						
271C-	68	PLA						
271D-	20 63 E3	JSR	\$E363					
2720-	20 63 E3	JSR	\$E363					
2723-	9D 8D C0	STA	\$C08D, X					
2726-	DD 8C C0	CMP	\$C08C, X					
2729-	EA	NOP						
272A-	88	DEY						
272B-	D0 F0	BNE	\$271D					
272D-	A9 D5	LDA	#\$D5					
272F-	20 75 E3	JSR	\$E375					
2732-	A9 AA	LDA	#\$AA					
2734-	20 75 E3	JSR	\$E375					
2737-	A9 96	LDA	#\$96					
2739-	20 75 E3	JSR	\$E375					
273C-	A5 2D	LDA	\$2D					
273E-	20 64 E3	JSR	\$E364					
2741-	A5 45	LDA	\$45					
2743-	20 64 E3	JSR	\$E364					
2746-	A5 46	LDA	\$46					
2748-	20 64 E3	JSR	\$E364					
274B-	A5 00	LDA	\$00					
274D-	20 64 E3	JSR	\$E364					
2750-	A9 DE	LDA	#\$DE					
2752-	20 75 E3	JSR	\$E375					
2755-	A9 AA	LDA	#\$AA					
2757-	20 75 E3	JSR	\$E375					
275A-	A9 EB	LDA	#\$EB					
275C-	20 75 E3	JSR	\$E375					
275F-	60	RTS						
2760-	BD 8C C0	LDA	\$C08C, X					
2763-	60	RTS						
2764-	48	PHA						
2765-	4A	LSR						
2766-	05 06	ORA	\$06					
2768-	9D 8D C0	STA	\$C08D, X					
276B-	DD 8C C0	CMP	\$C08C, X					
276E-	68	PLA						
276F-	EA	NOP						
2770-	EA	NOP						
2771-	EA	NOP						
2772-	09 AA	ORA	#\$AA					
2774-	EA	NOP						
2775-	18	CLC						
2776-	48	PHA						
2777-	68	PLA						
2778-	9D 8D C0	STA	\$C08D, X					

277B-	1D 8C C0	ORA	\$C08C,X		
277E-	60	RTS			

Similar to RWTS					
2D = Pascal Device (e.g., 4 = S6D1 usually)					
FC71 & FC63 Slot/Drive table initialized					
43 =					
FB = Requested Slot# * 60 (\$60)					
FA = Requested Drive (1 or 2 (?))					
[\$E37F] RWTS					
277F-	A0 02	LDY	#\$02	\$4F := 2	
2781-	84 4F	STY	\$4F		
2783-	A0 04	LDY	#\$04	\$4E := 4	
2785-	84 4E	STY	\$4E		
2787-	A6 2D	LDX	\$2D	Device (4,5, 9,10, 11,12)	
2789-	BD 71 FC	LDA	\$FC71,X	Drive# (1 or 2) for Device	
278C-	4A	LSR		4 = Drive1 = 00; 5 = Drive2 = 01;	
278D-	66 43	ROR	\$43	Set \$43 (high bit) to Drive 1/2	
278F-	BD 63 FC	LDA	\$FC63,X	Slot# * 16 for Device 4,5,... (e.g., \$60)	
2792-	8D F8 05	STA	\$05F8	BUG! #\$\$\$ if no previous successful I/O to 5 after boot.	
*** This code is TRYING to compare the previous *** disk I/O slot# to the requested slot#, *** but it fails miserably!					
2795-	C5 FB	CMP	\$FB	Slot# requested	
2797-	F0 14	BEQ	\$27AD	Same as set up one? Yes, \$27AD	
This device not set up yet(?) in FC63,X and FC71,X					
2799-	A6 FB	LDX	\$FB	X := Requested Slot# * 16	
279B-	85 FB	STA	\$FB	Save previous set up(?) Slot# * 16	
279D-	BD 8E C0	LDA	\$C08E,X	Prepare latch for input	
27A0-	A0 08	LDY	#\$08	Wait for Requested drive to stop spinning	
27A2-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch	
27A5-	DD 8C C0	CMP	\$C08C,X	Strobe Data Latch	
27A8-	D0 F6	BNE	\$27A0		
27AA-	88	DEY			
27AB-	D0 F8	BNE	\$27A5	Same value for 8 consecutive tries(?) Yes, drive has stopped spinning.	
*** Here \$FB is requested SLOT * 16, *** but could be #\$\$\$!!!!					
27AD-	A6 FB	LDX	\$FB	X := Requested Slot# * 16 (\$60)	
27AF-	BD 8E C0	LDA	\$C08E,X	Prepare latch for input	
27B2-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch	
27B5-	A0 08	LDY	#\$08		
Wait for data to start changing					
[\$E3B7]					
27B7-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch	
27BA-	48	PHA			
27BB-	68	PLA			
27BC-	48	PHA			
27BD-	68	PLA			
27BE-	DD 8C C0	CMP	\$C08C,X	Strobe Data Latch	
27C1-	D0 03	BNE	\$27C6		

2824-	20 45 E1	JSR	\$E145 [2545]	Read an Address Field				
2827-	90 1E	BCC	\$2847	Error?				
2829-	C6 4D	DEC	\$4D	Yes				
282B-	10 F7	BPL	\$2824	Try again				
282D-	A9 40	LDA	#\$40					
282F-	20 AA E4	JSR	\$E4AA [28AA]					
2832-	C6 4F	DEC	\$4F					
2834-	F0 21	BEQ	\$2857					
2836-	A9 04	LDA	#\$04					
2838-	85 4E	STA	\$4E					
283A-	A9 00	LDA	#\$00	Track := 0				
283C-	20 82 E4	JSR	\$E482	Move Arm to Requested Track				
283F-	A5 45	LDA	\$45	Track				
2841-	20 82 E4	JSR	\$E482	Move Arm to Requested Track				
2844-	4C 20 E4	JMP	\$E420					
[E447]								
2847-	A4 03	LDY	\$03	Track just read				
2849-	C4 45	CPY	\$45	Track we want				
284B-	F0 0F	BEQ	\$285C					
284D-	98	TYA						
284E-	20 AA E4	JSR	\$E4AA					
2851-	C6 4E	DEC	\$4E					
2853-	D0 EA	BNE	\$283F					
2855-	F0 D6	BEQ	\$282D					
2857-	A2 40	LDX	#\$40					
2859-	4C 72 E4	JMP	\$E472					
				On the proper track				
[E45C]								
285C-	A5 46	LDA	\$46	Sector we want				
285E-	C5 02	CMP	\$02	Sector we just read				
2860-	D0 C7	BNE	\$2829	Not the sector we want				
				SECTOR ADDRESS field we want!				
2862-	A5 44	LDA	\$44	Function: 0 = Read; 1 = Write;				
2864-	D0 13	BNE	\$2879	Write request, \$2879				
				Read request				
2866-	20 DA E0	JSR	\$E0DA [24DA]	Read a DATA FIELD				
2869-	B0 BE	BCS	\$2829					
286B-	20 C0 E0	JSR	\$E0C0 [24C0]	De-Nibbleize and start at \$30.33				
286E-	A2 00	LDX	#\$00					
2870-	18	CLC						
2871-	24	BIT	\$38					
[E472]								
	38	SEC						
2873-	A4 FB	LDY	\$FB					
2875-	B9 88 C0	LDA	\$C088,Y	MotorOFF				
2878-	60	RTS						
				Write request				
2879-	20 2A E0	JSR	\$E02A					
287C-	90 F0	BCC	\$286E					
287E-	A2 10	LDX	#\$10					
2880-	B0 F0	BCS	\$2872					

				Move Arm to Requested Track				
				A = Requested Track				

				X = Slot# * 16							
				43 = Drive 0 or 1 flag.							
				FB = requested Track (?)							
				Drive is spinning							
				Update Previous Track (\$478) and							
				Current Track for this disk drive.							
				JMP to \$E1A3							
				(Move Arm to Requested Track)							
				[\$E482]							
				2882- 0A ASL							
				2883- 85 4A STA \$4A	Track * 2 (1/2 track granularity)						
				2885- 20 A3 E4 JSR \$E4A3	Y := slot# (e.g., 06)						
				2888- A5 4A LDA \$4A	Track						
				288A- 24 43 BIT \$43	Drive 0? or 1?						
				288C- 30 09 BMI \$2897							
					Drive 0						
				288E- BE 78 04 LDX \$0478,Y	Previous Track						
				2891- 99 78 04 STA \$0478,Y	Desired Track						
				2894- 4C 9D E4 JMP \$E49D							
					Drive 1						
				2897- BE F8 04 LDX \$04F8,Y	Previous Track						
				289A- 99 F8 04 STA \$04F8,Y	Desired Track						
				289D- 8E 78 04 STX \$0478	0478,0 === Previous Track (?)						
				28A0- 4C A3 E1 JMP \$E1A3	[25A3]						

				CONVERTSLOT16							
				Convert slot# * 16 to slot#							
				X = slot# * 16 (e.g., #560)							
				Returns:							
				Y = slot# (e.g., #06)							
				[\$E4A3]							
				28A3- 8A TXA							
				28A4- 4A LSR							
				28A5- 4A LSR							
				28A6- 4A LSR							
				28A7- 4A LSR							
				28A8- A8 TAY							
				28A9- 60 RTS							

				[\$E4AA]							
				28AA- 48 PHA							
				28AB- 20 A3 E4 JSR \$E4A3							
				28AE- 68 PLA							
				28AF- 0A ASL							
				28B0- 24 43 BIT \$43							
				28B2- 30 04 BMI \$28B8							
				28B4- 99 78 04 STA \$0478,Y							
				28B7- 60 RTS							
				28B8- 99 F8 04 STA \$04F8,Y							
				28BB- 60 RTS							

				INIT DISK							
				[\$E4BC]							
				28BC- A9 AA LDA # \$AA	# \$AA						
				28BE- 85 06 STA \$06							
				28C0- A9 FF LDA # \$FF							
				28C2- 85 07 STA \$07							
				28C4- A9 00 LDA # \$00							
				28C6- 85 45 STA \$45	Track						
				28C8- A0 56 LDY # \$56							
				28CA- 99 A9 0C STA \$0CA9,Y							

28CD-	88	DEY								
28CE-	D0 FA	BNE	\$28CA							
28D0-	99 00 03	STA	\$0300,Y	\$0300,Y	denibble?					
28D3-	88	DEY								
28D4-	D0 FA	BNE	\$28D0							
28D6-	A9 28	LDA	#\$28							
28D8-	20 AA E4	JSR	\$E4AA							
28DB-	A9 28	LDA	#\$28							
28DD-	85 05	STA	\$05							
28DF-	A5 45	LDA	\$45	Track						
28E1-	20 82 E4	JSR	\$E482	Move Arm to Requested Track						
28E4-	20 15 E5	JSR	\$E515							
28E7-	A2 08	LDX	#\$08							
28E9-	B0 23	BCS	\$290E							
28EB-	A9 30	LDA	#\$30							
28ED-	85 4F	STA	\$4F							
28EF-	38	SEC								
28F0-	C6 4F	DEC	\$4F							
28F2-	F0 1A	BEQ	\$290E							
28F4-	20 45 E1	JSR	\$E145							
28F7-	B0 F6	BCS	\$28EF							
28F9-	A5 02	LDA	\$02							
28FB-	D0 F2	BNE	\$28EF							
28FD-	20 DA E0	JSR	\$E0DA							
2900-	B0 ED	BCS	\$28EF							
2902-	E6 45	INC	\$45	Track := Track + 1						
2904-	A5 45	LDA	\$45							
2906-	C9 23	CMP	#\$23							
2908-	90 D5	BCC	\$28DF							
290A-	A2 00	LDX	#\$00							
290C-	18	CLC								
290D-	24	BIT	\$38							
	[\$E50E]									
		38	SEC							
290F-	A4 FB	LDY	\$FB							
2911-	B9 88 C0	LDA	\$C088,Y	==== MotorOff =====						
2914-	60	RTS								

	[\$E515]									
2915-	A9 00	LDA	#\$00							
2917-	85 46	STA	\$46							
2919-	85 4B	STA	\$4B							
291B-	A0 80	LDY	#\$80							
291D-	D0 02	BNE	\$2921							
291F-	A4 05	LDY	\$05							
2921-	20 00 E3	JSR	\$E300							
2924-	B0 6F	BCS	\$2995							
2926-	A5 07	LDA	\$07							
2928-	20 B9 E0	JSR	\$E0B9							
292B-	EA	NOP								
292C-	EA	NOP								
292D-	A0 07	LDY	#\$07							
292F-	20 49 E0	JSR	\$E049							
2932-	E6 46	INC	\$46							
2934-	A5 46	LDA	\$46							
2936-	C9 10	CMP	#\$10							
2938-	90 E5	BCC	\$291F							
293A-	A0 0F	LDY	#\$0F							
293C-	84 46	STY	\$46							
293E-	A9 30	LDA	#\$30							

2A10-	A2 00	LDX	#\$00	All done with this set of I/Os				
2A12-	58	CLI						
2A13-	60	RTS						

	[\$E614]							
2A14-	86 44	STX	\$44	Function: 0 = Read;				
				1 = Write;				
				3 = INIT Disk;				
2A16-	20 7F E3	JSR	\$E37F	RWTS				
2A19-	B0 02	BCS	\$2A1D					
2A1B-	A9 00	LDA	#\$00					
2A1D-	58	CLI						
2A1E-	AA	TAX						
2A1F-	60	RTS						
2A20-	68	PLA						
2A21-	A8	TAY						
2A22-	68	PLA						
2A23-	AA	TAX						
2A24-	A9 00	LDA	#\$00					
2A26-	48	PHA						
2A27-	48	PHA						
2A28-	8A	TXA						
2A29-	48	PHA						
2A2A-	98	TYA						
2A2B-	48	PHA						

	[\$E62C]							
2A2C-	A6 2D	LDX	\$2D					
2A2E-	BD 63 FC	LDA	\$FC63,X	Slot * 16 for Device \$2D (e.g., \$60)				
2A31-	30 03	BMI	\$2A36					
2A33-	A2 00	LDX	#\$00					
2A35-	60	RTS						
2A36-	A2 09	LDX	#\$09					
2A38-	60	RTS						

				Return "# of Blocks" on a physical disk II				
				After INIT DISK call,				
				UNITREAD(BASE12, MPOE, 21, 0);				
				Set MPOE to #\$0118 = 280 = # of BLOCKS				
	[\$E639]							
2A39-	20 2C E6	JSR	\$E62C	Get slot * 16 using \$2D				
2A3C-	D0 0B	BNE	\$2A49					
2A3E-	A9 01	LDA	#\$01					
2A40-	A0 01	LDY	#\$01					
2A42-	91 30	STA	(\$30),Y					
2A44-	A9 18	LDA	#\$18					
2A46-	88	DEY						
2A47-	91 30	STA	(\$30),Y	\$30.31 ==> \$0118 = 280				
2A49-	60	RTS		# of blocks on a diskette				

2A4A-	20 2C E6	JSR	\$E62C					
2A4D-	D0 24	BNE	\$2A73					
2A4F-	A0 00	LDY	#\$00					
2A51-	98	TYA						
2A52-	91 30	STA	(\$30),Y					
2A54-	C8	INY						
2A55-	91 30	STA	(\$30),Y					
2A57-	C8	INY						
2A58-	91 30	STA	(\$30),Y					
2A5A-	C8	INY						
2A5B-	A9 01	LDA	#\$01					

2A5D-	91 30	STA	(\$30),Y						
2A5F-	C8	INY							
2A60-	A9 10	LDA	#\$10						
2A62-	91 30	STA	(\$30),Y						
2A64-	C8	INY							
2A65-	A9 00	LDA	#\$00						
2A67-	91 30	STA	(\$30),Y						
2A69-	C8	INY							
2A6A-	A9 23	LDA	#\$23						
2A6C-	91 30	STA	(\$30),Y						
2A6E-	C8	INY							
2A6F-	A9 00	LDA	#\$00						
2A71-	91 30	STA	(\$30),Y						
2A73-	60	RTS							

Jump table for Functions									
[E674]									
2A74-									
C6 E5		Function 0 =	Read						
C6 E5		Function 1 =		See E5B6	JMP	E5C6			
2C E6		Function 2 =							
14 E6		Function 3 =	INIT disk						
4A E6		Function 4 =							
2C E6		Function 5 =							
20 E6		Function 6 =							
2C E6		Function 7 =							
39 E6		Function 8 =	Return "# of Blocks" on disk (\$0118 = 280)	E639					

[E686]									
2A86	85 43								
2A88-	B9 63 FC	LDA	\$FC63,Y	Slot # for Pascal Device	Y				
2A8B-	85 B1	STA	\$B1	\$B1					
2A8D-	A0 00	LDY	#\$00						
2A8F-	84 42	STY	\$42						
2A91-	84 B0	STY	\$B0						
2A93-	88	DEY							
2A94-	B1 B0	LDA	(\$B0),Y	\$B0					
2A96-	85 B0	STA	\$B0						
2A98-	8A	TXA							
2A99-	0A	ASL							
2A9A-	A8	TAY							
2A9B-	B9 AE E6	LDA	\$E6AE,Y						
2A9E-	85 AD	STA	\$AD						
2AA0-	B9 AF E6	LDA	\$E6AF,Y						
2AA3-	85 AE	STA	\$AE						
2AA5-	20 AF 00	JSR	\$00AF						
2AA8-	8D D0 07	STA	\$07D0						
2AAB-	6C AD 00	JMP	(\$00AD)						
Some of the following looks like data									
2AAE-	2C E7 BC	BIT	\$BCE7						
2AB1-	E6 EE	INC	\$EE	not an instruction					
2AB3-	E6 16	INC	\$16						
[E6B5]									
2AB5-	E7	???	????	nop	????				
2AB6-	FE E6 FE	INC	\$FEE6,X						
2AB9-	E6 08	INC	\$08						
2ABB-	E7	???	????	nop	????				
2ABC-	B0 32	BCS	\$2AF0						
2ABE-	A2 02	LDX	#\$02						
2AC0-	86 42	STX	\$42						

2AC2-	A5 34	LDA	\$34						
2AC4-	85 46	STA	\$46						
2AC6-	A5 35	LDA	\$35						
2AC8-	85 47	STA	\$47						
2ACA-	A5 30	LDA	\$30						
2ACC-	85 44	STA	\$44						
2ACE-	A5 31	LDA	\$31						
2AD0-	85 45	STA	\$45						
2AD2-	20 AF 00	JSR	\$00AF	JSR \$00AF	(AF: JMP xx xx, B0 & B1 target)				
2AD5-	B0 19	BCS	\$2AF0						
2AD7-	E6 34	INC	\$34						
2AD9-	D0 02	BNE	\$2ADD						
2ADB-	E6 35	INC	\$35						
2ADD-	E6 31	INC	\$31						
2ADF-	E6 31	INC	\$31						
2AE1-	38	SEC							
2AE2-	A5 33	LDA	\$33						
2AE4-	E9 02	SBC	#\$02						
2AE6-	85 33	STA	\$33						
2AE8-	90 04	BCC	\$2AEE						
2AEA-	05 32	ORA	\$32						
2AEC-	D0 D0	BNE	\$2ABE						
2AEE-	A9 00	LDA	#\$00						
2AF0-	AA	TAX							
2AF1-	60	RTS							
2AF2-	68	PLA							
2AF3-	A8	TAY							
2AF4-	68	PLA							
2AF5-	AA	TAX							
2AF6-	A9 00	LDA	#\$00						
2AF8-	48	PHA							
2AF9-	48	PHA							
2AFA-	8A	TXA							
2AFB-	48	PHA							
2AFC-	98	TYA							
2AFD-	48	PHA							
2AFE-	A9 01	LDA	#\$01						
2B00-	E9 00	SBC	#\$00						
2B02-	D0 EA	BNE	\$2AEE						
2B04-	A9 09	LDA	#\$09						
2B06-	D0 E8	BNE	\$2AF0						
2B08-	B0 E6	BCS	\$2AF0						
2B0A-	98	TYA							
2B0B-	A0 01	LDY	#\$01						
2B0D-	91 30	STA	(\$30),Y						
2B0F-	88	DEY							
2B10-	8A	TXA							
2B11-	91 30	STA	(\$30),Y						
2B13-	A2 00	LDX	#\$00						
2B15-	60	RTS							
2B16-	B0 D8	BCS	\$2AF0						
2B18-	98	TYA							
2B19-	A0 01	LDY	#\$01						
2B1B-	91 30	STA	(\$30),Y						
2B1D-	88	DEY							
2B1E-	8A	TXA							
2B1F-	91 30	STA	(\$30),Y						
2B21-	A2 03	LDX	#\$03						
2B23-	86 42	STX	\$42						
2B25-	20 AF 00	JSR	\$00AF						
2B28-	B0 C6	BCS	\$2AF0						
2B2A-	90 C2	BCC	\$2AEE						

2B2C-	B0 C2	BCS	\$2AF0					
2B2E-	A5 34	LDA	\$34					
2B30-	85 46	STA	\$46					
2B32-	A5 35	LDA	\$35					
2B34-	85 47	STA	\$47					
2B36-	A2 02	LDX	#\$02					
2B38-	86 45	STX	\$45					
2B3A-	86 C9	STX	\$C9					
2B3C-	CA	DEX						
2B3D-	86 42	STX	\$42					
2B3F-	CA	DEX						
2B40-	86 44	STX	\$44					
2B42-	86 C8	STX	\$C8					
2B44-	20 AF 00	JSR	\$00AF					
2B47-	B0 A7	BCS	\$2AF0					
2B49-	A5 30	LDA	\$30					
2B4B-	85 CA	STA	\$CA					
2B4D-	A5 31	LDA	\$31					
2B4F-	85 CB	STA	\$CB					
2B51-	A0 00	LDY	#\$00					
2B53-	A2 02	LDX	#\$02					
2B55-	A5 33	LDA	\$33					
2B57-	C9 02	CMP	#\$02					
2B59-	B0 03	BCS	\$2B5E					
2B5B-	AA	TAX						
2B5C-	A4 32	LDY	\$32					
2B5E-	84 CC	STY	\$CC					
2B60-	86 CD	STX	\$CD					
2B62-	20 4E D0	JSR	\$D04E					
2B65-	E6 34	INC	\$34					
2B67-	D0 02	BNE	\$2B6B					
2B69-	E6 35	INC	\$35					
2B6B-	E6 31	INC	\$31					
2B6D-	E6 31	INC	\$31					
2B6F-	38	SEC						
2B70-	A5 33	LDA	\$33					
2B72-	E9 02	SBC	#\$02					
2B74-	85 33	STA	\$33					
2B76-	90 04	BCC	\$2B7C					
2B78-	05 32	ORA	\$32					
2B7A-	D0 B2	BNE	\$2B2E					
2B7C-	60	RTS						
-----Check Keyboard for Input -----								
[\$E77D]								
2B7D-	08	PHP		Save Processor Status				
2B7E-	48	PHA		Save A				
2B7F-	98	TYA		Save Y				
2B80-	48	PHA						
2B81-	AD 00 C0	LDA	\$C000	Keyboard Data Input				
2B84-	85 E5	STA	\$E5					
2B86-	10 2F	BPL	\$2BB7	Key pressed? No, RTS				
2B88-	8D 10 C0	STA	\$C010	Yes, Clear KEYBOARD STROBE				
2B8B-	29 7F	AND	#\$7F	Strip high bit (Make it ASCII)				
2B8D-	C9 05	CMP	#\$05	CTRL-E pressed?				
2B8F-	F0 26	BEQ	\$2BB7	Yes, RTS (Ignore CTRL-E)				
2B91-	C9 04	CMP	#\$04	CTRL-D pressed?				
2B93-	D0 04	BNE	\$2B99					
2B95-	A9 80	LDA	#\$80	Yes, A := #\$80				
2B97-	D0 06	BNE	\$2B9F					
[\$E799]								
2B99-	C9 13	CMP	#\$13	No.				
2B9B-	D0 08	BNE	\$2BA5	CTRL-S pressed?				
2B9D-	A9 40	LDA	#\$40	Yes, A := #\$40				

2B9F-	45 E7	EOR	\$E7	Set/Clear FLAG in \$E7 (10000000 = CTRL-D)
2BA1-	85 E7	STA	\$E7	(01000000 = CTRL-S)
2BA3-	B0 12	BCS	\$2BB7	CTRL-D bit set? Yes, RTS
2BA5-	A4 E1	LDY	\$E1	Input buffer ptr (?)
2BA7-	C8	INY		
2BA8-	C0 1A	CPY	#\$1A	At end of buffer? (?)
2BAA-	90 02	BCC	\$2BAE	
2BAC-	A0 00	LDY	#\$00	Yes, so reset to beginning (?)
2BAE-	C4 E0	CPY	\$E0	Buffer full? (?)
2BB0-	F0 05	BEQ	\$2BB7	Yes RTS (?)
2BB2-	99 00 0C	STA	\$0C00,Y	No, save character in Input buffer.
2BB5-	84 E1	STY	\$E1	and update buffer ptr.
[E7B7]				
2BB7-	68	PLA		Restore Y
2BB8-	98	TYA		
2BB9-	68	PLA		Restore A
2BBA-	28	PLP		Restore Processor Status
2BBB-	60	RTS		Return

[E7BC				
2BBC-	E0 04	CPX	#\$04	
2BBE-	B0 36	BCS	\$2BF6	
2BC0-	F0 31	BEQ	\$2BF3	
2BC2-	E0 01	CPX	#\$01	
2BC4-	B0 29	BCS	\$2BEF	
2BC6-	F0 2B	BEQ	\$2BF3	
2BC8-	A6 32	LDX	\$32	
2BCA-	F0 1E	BEQ	\$2BEA	
2BCC-	20 7D E7	JSR	\$E77D	Check keyboard for input
2BCF-	A4 E0	LDY	\$E0	
2BD1-	C4 E1	CPY	\$E1	
2BD3-	F0 F7	BEQ	\$2BCC	
2BD5-	C8	INY		
2BD6-	C0 1A	CPY	#\$1A	
2BD8-	90 02	BCC	\$2BDC	
2BDA-	A0 00	LDY	#\$00	
2BDC-	84 E0	STY	\$E0	
2BDE-	B9 00 0C	LDA	\$0C00,Y	
2BE1-	A0 00	LDY	#\$00	
2BE3-	91 30	STA	(\$30),Y	
2BE5-	CA	DEX		
2BE6-	D0 E4	BNE	\$2BCC	
2BE8-	E6 31	INC	\$31	
2BEA-	C6 33	DEC	\$33	
2BEC-	10 DE	BPL	\$2BCC	
2BEE-	60	RTS		
2BEF-	A5 E0	LDA	\$E0	
2BF1-	85 E1	STA	\$E1	
2BF3-	A2 00	LDX	#\$00	
2BF5-	60	RTS		
2BF6-	38	SEC		
2BF7-	A5 E0	LDA	\$E0	
2BF9-	E5 E1	SBC	\$E1	
2BFB-	A2 00	LDX	#\$00	
2BFD-	60	RTS		

From \$141E, at start of SYSTEM.INTERP				
and from \$F904 JMP \$E7FE while loading a segment				
Before JSR:				
Set up \$2D..\$35 for I/O to read last 4 sectors of SYSTEM.INTERP to \$BC00..BFFF.				

	[\$E82F]								
2C2F-	E6 F6	INC	\$F6						
2C31-	C6 F7	DEC	\$F7						
2C33-	24 E6	BIT	\$E6	Special flag, set by initial ClearScreen					
2C35-	10 18	BPL	\$2C4F	0 or Positive? Yes, RTS					
				\$E6 is Negative					
2C37-	24 38	BIT	\$38	\$38 (\$2F)					
2C39-	30 14	BMI	\$2C4F	Negative, RTS					
				\$38 = 0 or Positive					
2C3B-	20 00 FD	JSR	\$FD00	Error routine (?)					
2C3E-	A2 08	LDX	#\$08						
2C40-	B5 36	LDA	\$36,X						
2C42-	95 2D	STA	\$2D,X						
2C44-	CA	DEX							
2C45-	10 F9	BPL	\$2C40						

				\$3F = function					
	[\$E847]								
2C47-	A6 3F	LDX	\$3F	e.g., 0 = Read operation					
2C49-	20 B6 E5	JSR	\$E5B6						
2C4C-	8A	TXA							
2C4D-	D0 E0	BNE	\$2C2F [\$E82F]						
2C4F-	60	RTS							

				Aux Section Sizes					
				During Bootstrap:					
				\$FBE4: 03 04 01 05					
				-- -- --					
				03, 04, and 01 are indices into \$E850 table					
				03 04 01 identify 3 Sections of 64K Aux Bank					
	[\$E850]	Index							
2C50-	0F 0:								
	5F 1: \$0200..\$BFFF		\$5F is # of BLOCKS						
	40 2:								
	08 3: \$D000..\$CFFF		\$08 is # of BLOCKS (Bank 1)						
	18 4: \$D000..\$FFFF		\$18 is # of BLOCKS (Bank 2)						
2C55-	00 5:								

				Aux Section Start Addresses					
				This table also indexed by					
				03 04 01 for Aux memory					
				-- -- --					
	[\$E856]								
2C56-	02								
	02 1: \$0200..\$BFFF								
	40 2:								
	D0 3: \$D000..\$CFFF								
	D0 4: \$D000..\$FFFF								
2C5B-	00								

				X == 0 Read					
				1 Write					
				4 Aux Cache					
				Y == 1 for \$F084 call to here.					
	[\$E85C]								
2C5C-	A5 2D	LDA	\$2D	Device = 4? (\$6D1)					
2C5E-	C9 04	CMP	#\$04						
2C60-	D0 0D	BNE	\$2C6F	No, \$F8EE					

2C62-	E0 01	CPX	#\$01	Read?				
2C64-	90 0C	BCC	\$2C72	Yes, \$E872				
2C66-	F0 07	BEQ	\$2C6F	Write? Yes, \$F8EE				
				No. (could be X = 4)				
2C68-	24 2F	BIT	\$2F	*** \$2F set to #\$60 in \$F084 code ***				
2C6A-	50 03	BVC	\$2C6F	Normal I/O; S6D1 and Function > 1 and \$2F(bit 6)=0				
2C6C-	4C F3 E9	JMP	\$E9F3	CACHE I/O; S6D1 and Function > 1 and \$2F(bit 6)=1				
2C6F-	4C EE F8	JMP	\$F8EE	Normal I/O; S5, S6D2, S6D1 Write, S6D1 Read and \$EE=0				
				Read function, Device 4 (S6D1)				
				UNITWRITE(13, -2, 25, 0) sets \$EE to -1				
				[\$E872]				
2C72-	24 EE	BIT	\$EE	\$EE negative means Aux Cache is available				
2C74-	10 F9	BPL	\$2C6F	No Cache, \$F8EE				
2C76-	A5 E9	LDA	\$E9	# of Cache records				
2C78-	F0 F5	BEQ	\$2C6F	No Cache, \$F8EE				

				* Look at Cache first! *				

				X = 0				
				[\$E87A]				
2C7A-	85 84	STA	\$84	\$84 := \$E9 (# of Cache records)				
2C7C-	A5 32	LDA	\$32	\$88.89 := \$32.33 (I/O Length in bytes)				
2C7E-	85 88	STA	\$88					
2C80-	A5 33	LDA	\$33					
2C82-	85 89	STA	\$89	Length = 0?				
2C84-	05 88	ORA	\$88					
2C86-	F0 4E	BEQ	\$2CD6	Yes, RTS				
2C88-	A5 34	LDA	\$34	\$8A.8B := \$34.35 (I/O Block Request)				
2C8A-	85 8A	STA	\$8A					
2C8C-	A5 35	LDA	\$35					
2C8E-	85 8B	STA	\$8B					
2C90-	A5 30	LDA	\$30	\$86.87 := \$30.31 (I/O Dest)				
2C92-	85 86	STA	\$86					
2C94-	A5 31	LDA	\$31					
2C96-	85 87	STA	\$87					
2C98-	86 8C	STX	\$8C	\$8C := X (0 because this is Read function) (but \$8C is Cache record block # for \$E988)				
				Begin Loop to process each cache record. Each cache block has up to 64 cache records in Aux Bank #0: \$D000..DFFF (bank 1)				
				[\$E89A]				
2C9A-	A9 00	LDA	#\$00	\$82.83 := #\$0200 (Not input to \$E988)				
2C9C-	85 82	STA	\$82					
2C9E-	A9 02	LDA	#\$02	Start at cache record 0 in a cache record block				
2CA0-	85 83	STA	\$83	(Cache record block is read into \$0200 main ram)				
2CA2-	A2 40	LDX	#\$40	\$7E := #\$40 (Not input to \$E988)				
2CA4-	86 7E	STX	\$7E	Max of 64 cache records in a cache record block				
				*** Re-Entry from Bottom of this routine Sometimes the I/O request spans multiple cache record blocks.				
				\$8C is the cache record block to read				

				[\$E8A6]				

2CA6-	20 88 E9	JSR	\$E988	Read Aux \$D000..DFFF; Bank 1; 1 block to \$0200		

				[\$E8A9]		
2CA9-	A0 06	LDY	#\$06	(82.83)-->Cache record,6 is LastBlock(+1)		
2CAB-	38	SEC				
2CAC-	B1 82	LDA	(\$82),Y	LastBlock(+1) (low)		
2CAE-	E5 8A	SBC	\$8A	\$8E.8F := Last Block - \$8A.8B (Requested Block)		
2CB0-	85 8E	STA	\$8E			
2CB2-	C8	INY				
2CB3-	B1 82	LDA	(\$82),Y	LastBlock(+1) (high)		
2CB5-	E5 8B	SBC	\$8B			
2CB7-	85 8F	STA	\$8F			
2CB9-	05 8E	ORA	\$8E			
2CBB-	F0 02	BEQ	\$2CBF	Requested Block = LastBlock(+1)? Yes, \$E8BF		
2CBD-	B0 34	BCS	\$2CF3	[\$E8F3] If Requested Block < Last Block + 1 this might be entry for Requested Block. Branch to \$E8F3		
				Haven't found Requested Block yet. Advance to next cache record.		
				[\$E8BF]		
2CBF-	18	CLC		\$82.83 := \$82.83 + 8 (size of a cache record)		
2CC0-	A5 82	LDA	\$82			
2CC2-	69 08	ADC	#\$08			
2CC4-	85 82	STA	\$82			
2CC6-	90 02	BCC	\$2CCA			
2CC8-	E6 83	INC	\$83			
2CCA-	C6 84	DEC	\$84	One less cache record to look at		
				[\$E8CC]		
2CCC-	F0 09	BEQ	\$2CD7	[\$E8D7] No more to examine --> \$E8D7		
2CCE-	C6 7E	DEC	\$7E	One less cache record in this cache record block		
2CD0-	D0 D7	BNE	\$2CA9	[\$E8A9] Check next record, \$E8A9		
2CD2-	E6 8C	INC	\$8C	Advance to next cache record block in \$D000..DFFF		
2CD4-	D0 C4	BNE	\$2C9A	[\$E89A] Get next cache record block, \$E89A		
2CD6-	60	RTS		Never fall through to this RTS!!!		

				No more cache records to examine :(
				[\$E8D7]		
2CD7-	A9 04	LDA	#\$04	A := 4 so that \$E922 always branches to \$E92A.		
2CD9-	D0 0B	BNE	\$2CE6	[\$E8E6] skip some code Tricky stuff!		

				Requested Block is in a "gap". It is >= LastBlock(+1) in the previous record, and is < FirstBlock in the current record.		
				[\$E8DB]		
2CDB-	38	SEC		\$8E.8F := 0 - \$20.21		
2CDC-	A9 00	LDA	#\$00	(Positive difference between		
2CDE-	E5 20	SBC	\$20	Requested Block and FirstBlock)		
2CE0-	85 8E	STA	\$8E	This helps determine how much I/O to Disk		
2CE2-	A9 00	LDA	#\$00	is required. It might be all of the gap or		
2CE4-	E5 21	SBC	\$21	just part of the gap.		
				\$8E.8F is the maximum I/O we could ever do for this "gap" using Requested Block as the first block.		

				[\$E8E6]		
2CE6-	85 8F	STA	\$8F	\$8F := (could be #\$4 from \$E8D7) Tricks!		
2CE8-	A5 8A	LDA	\$8A	\$34.35 := \$8A.8B (Requested Block #)		

2CEA-	85 34	STA	\$34						
2CEC-	A5 8B	LDA	\$8B						
2CEE-	85 35	STA	\$35						
2CF0-	38	SEC		C := 1 (no find, so need to read from Disk)					
2CF1-	B0 27	BCS	\$2D1A	[\$E91A] skip some code					

Almost Found entry for Requested Block!									
[\$E8F3]									
2CF3-	A0 00	LDY	#\$00	\$20.21 := \$8A.8B (Requested) -					
2CF5-	38	SEC		FirstBlock in current cache record					
2CF6-	A5 8A	LDA	\$8A						
2CF8-	F1 82	SBC	(\$82),Y						
2CFA-	85 20	STA	\$20						
2CFC-	C8	INY							
2CFD-	A5 8B	LDA	\$8B						
2CFF-	F1 82	SBC	(\$82),Y						
[\$E901]									
2D01-	85 21	STA	\$21						
2D03-	90 D6	BCC	\$2CDB	Requested < FirstBlock so there must					
				not be a cache record for this Requested Block					
				Continue at \$\$E8DB.					

				* Now we truly have found the entry! *					

				The current cache record includes at					
				least the first Requested Block.					
[\$E905]									
2D05-	C8	INY		Get Cache record SectionOffset (Word 1)					
2D06-	18	CLC		\$34.35 := SectionOffset +					
2D07-	B1 82	LDA	(\$82),Y	(Requested - First Block)					
2D09-	65 20	ADC	\$20						
2D0B-	85 34	STA	\$34	In other words, calculate the address					
2D0D-	C8	INY		relative to the start of the Aux Section					
2D0E-	B1 82	LDA	(\$82),Y	where the real data is found.					
2D10-	65 21	ADC	\$21						
2D12-	85 35	STA	\$35						
2D14-	C8	INY		\$85 := Aux Section Index (0, 1, 2, 3, 4,...)					
2D15-	B1 82	LDA	(\$82),Y	for Aux Section: (03 04 01)					
2D17-	85 85	STA	\$85						
2D19-	18	CLC							

[\$E91A]									
2D1A-	08	PHP		C=0 means we found entry; C=1 not found					
2D1B-	A2 00	LDX	#\$00	Calculate \$8E.8F in byte granularity					
2D1D-	A5 8E	LDA	\$8E	\$8E.8F := 2 * 8E.8F (but 8E is not updated)					
2D1F-	0A	ASL		A := 2 * \$8E and C set/cleared					
2D20-	26 8F	ROL	\$8F	For the "find" case, 2 * \$8F = 0 since #5F					
2D22-	D0 06	BNE	\$2D2A	is the max I/O (in blocks) for 1 cache record					
				\$8F <> 0 for the tricks case at \$E8D7,					
				and for extremely large "gaps".					
				A = max blocks I/O based on this cache record.					
2D24-	C5 89	CMP	\$89	Compare with I/O Length Request					
2D26-	F0 06	BEQ	\$2D2E	i.e., make sure we don't do too much I/O					
2D28-	90 04	BCC	\$2D2E	This could be just a subset for this cache record					
				If \$88.89 > this cache record we scale it back and will					
				do another I/O after this one.					

2D2A-	A6 88	LDX	\$88	X.A := \$88.89	I/O Length			
2D2C-	A5 89	LDA	\$89					
2D2E-	86 8E	STX	\$8E	\$8E.8F := X.A	Length			
2D30-	85 8F	STA	\$8F					
2D32-	86 32	STX	\$32	\$32.33 := X.A	Length			
2D34-	85 33	STA	\$33					
2D36-	A5 86	LDA	\$86	\$30.31 := \$86.87	Dest			
2D38-	85 30	STA	\$30					
2D3A-	A5 87	LDA	\$87					
2D3C-	85 31	STA	\$31					
2D3E-	28	PLP						
2D3F-	B0 0C	BCS	\$2D4D	[\$E94D]	Get block the "normal" way			
					Get block from Aux Memory			
2D41-	A9 00	LDA	#\$00	\$8D := Read Aux				
2D43-	85 8D	STA	\$8D					
2D45-	A6 85	LDX	\$85	Aux Section Index (0, 1, 2, 3, 4, 5, ...)				
				for Aux Section: (03 04 01)				

2D47-	20 A0 E9	JSR	\$E9A0	Read from Aux Memory				

2D4A-	4C 52 E9	JMP	\$E952	skip some code --> \$E952				
					[\$E94D]			
2D4D-	A2 00	LDX	#\$00	Read function				

2D4F-	20 EE F8	JSR	\$F8EE	Read from Disk				

					[\$E952]			
2D52-	20 7D E7	JSR	\$E77D	check keyboard for input				
2D55-	38	SEC		\$88.89 := \$88.89 - \$8E.8F				
2D56-	A5 88	LDA	\$88	I/O Length request -				
2D58-	E5 8E	SBC	\$8E	# of blocks from just performed I/O				
2D5A-	85 88	STA	\$88					
2D5C-	A5 89	LDA	\$89					
2D5E-	E5 8F	SBC	\$8F	If \$88.89 is 0, then we have completed the I/O.				
2D60-	85 89	STA	\$89					
2D62-	05 88	ORA	\$88	If not 0, then more I/O is needed.				
2D64-	F0 1E	BEQ	\$2D84	0? Yes, RTS				
					[\$E966]			
2D66-	18	CLC		No.				
2D67-	A5 87	LDA	\$87	\$87 := \$87 + \$8F				
2D69-	65 8F	ADC	\$8F	(Update I/O Dest)				
2D6B-	85 87	STA	\$87					
2D6D-	A5 8F	LDA	\$8F	\$8A.8B := \$8A.8B + (\$8F / 2)				
2D6F-	4A	LSR		(Update Request Block)				
2D70-	18	CLC						
2D71-	65 8A	ADC	\$8A					
2D73-	85 8A	STA	\$8A					
2D75-	90 02	BCC	\$2D79					
2D77-	E6 8B	INC	\$8B					
					[\$E979]			
2D79-	4C A6 E8	JMP	\$E8A6	[\$E8A6]	Start again near the top			

					Return Bank Section Size			
					Input:			
					X = index into \$FBE4 table.			
					Output:			
					A.X = size (in blocks)			
					X is always 0			

\$FBE4: 03 04 01 05 by BOOTSTRAP code.
3 values = 1 bank in Aux.
05 is terminator

Value from \$FBE4 is index into \$E850 table:

X	\$FBE4	\$E850	
0	03	08	\$D000..\$CFFF (Bank 1)
1	04	18	\$D000..\$FFFF (Bank 2)
2	01	5F	\$0200..\$BFFF

[\$E97C]

2D7C- BC E4 FB LDY \$FBE4,X Memory Banks table
2D7F- B9 50 E8 LDA \$E850,Y A := Section size (in blocks)
2D82- A2 00 LDX #\$00 X := 0 (High part (?))
2D84- 60 RTS

Read/Write Aux memory

\$E985 Write Aux \$D000; Bank 1; 1 block

Update cache record block

\$8C = Cache block record index

e.g., \$8C = \$03, means \$D600.

There are up to 64 x 4 word cache records
in each cache record block.

A cache record:

1. FirstBlock
2. Offset into Section (Blocks)
3. Aux Section index (0, 1, 2, 3, 4, 5, ...)
03 04 01 03 04 01 ...
4. LastBlock(+1)

\$E988 Read Aux \$D000; Bank 1; 1 block

Get cache record block

\$8C (same as Write \$E985)

\$E994 is Alternate Entry Point Read (or Write)

1. Read #\$0200 bytes
From: Aux Section X + Offset (\$34)
To: #\$0200
2. Write #\$0200 bytes
From: #\$0200
To: Aux Section X + Offset (\$34)

8D = 0(Read) or 1(Write)

\$34 = Offset

X = Aux section (0, 1, 2)

\$E9A0 is Alternate Entry Point Read (or Write)

1. Read \$32.33 bytes
From: Aux Section X + Offset (\$34)
To: \$30.31
2. Write \$32.33 bytes
From: \$30.31
To: Aux Section X + Offset (\$34)

8D = 0(Read) or 1(Write)

\$34 = Offset

X = Aux section (0, 1, 2)

\$32.33 = Length

\$30.31 = Dest / Src

Calculate \$22.\$23 (Size of I/O) for JSR \$EAD8				
2E09-	A6 E8	LDX	\$E8	Aux section (0, 1, 2) (for 03 04 01)
2E0B-	E4 FC	CPX	\$FC	3 * number of 64K Aux banks
2E0D-	B0 4B	BCS	\$2E5A	Any more Aux sections to process?
				No, \$EA5A
				Do 1 of the 3 Aux Bank Sections
				(\$D000..DFFF, \$D000..FFFF, \$0200..BFFF)
2E0F-	20 7C E9	JSR	\$E97C	Get # of blocks in this Aux section
2E12-	38	SEC		A := \$08 or \$18 or \$5F
2E13-	E5 EA	SBC	\$EA	Subtract \$EA.EB from A
2E15-	A8	TAY		(\$EA.EB is # of blocks already read)
2E16-	8A	TXA		Save in Y.X (X=high)
2E17-	E5 EB	SBC	\$EB	A := (remaining) block count
2E19-	AA	TAX		(e.g., #\$18, D000..FFFF)
2E1A-	C4 8E	CPY	\$8E	If (remaining) blocks in this Aux section >
2E1C-	E5 8F	SBC	\$8F	total I/O requested
2E1E-	90 04	BCC	\$2E24	then
2E20-	A4 8E	LDY	\$8E	Y.X := total I/O requested
2E22-	A6 8F	LDX	\$8F	(i.e., Y.X could be partial Aux section size)
2E24-	84 22	STY	\$22	\$22.\$23 := Y.X
2E26-	86 23	STX	\$23	Amount of I/O for this Aux section
				\$E8 = Aux Section (0, 1, 2) (for 03 04 01)
				\$E9 = # of cache records
				\$EA.EB = # of blocks written to this Aux Section
				\$7C.7D = Disk Block #
				\$22.\$23 = I/O Block Count

2E28-	20 D8 EA	JSR	\$EAD8	JSR \$EAD8 LOTS OF CODE HERE

				...But no disk i/o yet
2E2B-	38	SEC		\$8E.8F := \$8E.8F - \$22.\$23
2E2C-	A5 8E	LDA	\$8E	Remaining I/O after this
2E2E-	E5 22	SBC	\$22	Aux section I/O completed
2E30-	85 8E	STA	\$8E	
2E32-	A5 8F	LDA	\$8F	
2E34-	E5 23	SBC	\$23	
2E36-	85 8F	STA	\$8F	

2E38-	20 8F EA	JSR	\$EA8F	Read Blocks from DISK to Aux Section

2E3B-	A6 E8	LDX	\$E8	Aux Bank section index (0, 1, 2) (03, 04, 01)
2E3D-	20 7C E9	JSR	\$E97C	Get SIZE of this Aux section
				X := 0 (always)
				A := size (in blocks)
2E40-	E4 EB	CPX	\$EB	\$EB > 0?
2E42-	90 08	BCC	\$2E4C	\$EB > 0 --> \$EA4C Hopefully never taken!?
2E44-	D0 0E	BNE	\$2E54	BNE can't be taken with X always 0.
2E46-	C5 EA	CMP	\$EA	SIZE of Aux section = \$EA?
2E48-	F0 02	BEQ	\$2E4C	Yes, \$EA4C (we filled this Aux section)
2E4A-	B0 08	BCS	\$2E54	SIZE of Aux section > \$EA?
				Yes, \$EA54 (did not fill Aux section)
				(should be done (?))
				No. (Can't ever just fall through!?)
				(Would mean we "overfilled" this section.)
[\$EA4C]				
2E4C-	E6 E8	INC	\$E8	E8 := E8 + 1; Increment to next Aux section
2E4E-	A9 00	LDA	#\$00	(Possibly to next 64K bank section)

2E50-	85 EA	STA	\$EA	Reset \$EA.EB := 0;				
2E52-	85 EB	STA	\$EB	# of blocks written to this Aux section				
2E54-	A5 8F	LDA	\$8F					
2E56-	05 8E	ORA	\$8E					
2E58-	D0 AF	BNE	\$2E09	JMP LOOP (if more to read)				

Done with all 64K banks.								
Note fallthrough from above too,								
and branch from EA07.								
[\$EA5A]								
Return Aux Bank(s) size (less first section)								
2E5A-	A9 00	LDA	#\$00	\$8E.8F := 0;				
2E5C-	85 8E	STA	\$8E					
2E5E-	85 8F	STA	\$8F					
2E60-	A6 FC	LDX	\$FC	X := Aux Bank Sections (3* # of 64K banks)				
2E62-	F0 18	BEQ	\$2E7C	\$FC = 0? Yes, \$EA7C (No Aux memory)				
[\$EA64]								
AUX ADD LOOP:								
2E64-	CA	DEX		Dec to next Aux section in \$FBE4: 03 04 01 05				
2E65-	E4 E8	CPX	\$E8	Process all (except first, 03)				
2E67-	90 13	BCC	\$2E7C	\$EA7C when complete				
2E69-	86 85	STX	\$85	X is index into \$FBE4 table: 03 04 01 05				

2E6B-	20 7C E9	JSR	\$E97C	A.X := # of blocks in this Aux section				

X \$FBE4 \$E850								
0 03 08 \$C000..\$CFFF								
1 04 18 \$D000..\$FFFF								
2 01 5F \$0200..\$BFFF								
A.X = Size in Blocks for this Aux Section								
(X is ALWAYS 0)								
2E6E-	18	CLC		\$8E.8F := \$8E.8F + Size of this Aux Section				
2E6F-	65 8E	ADC	\$8E	(\$5F, \$18, etc.)				
2E71-	85 8E	STA	\$8E					
2E73-	8A	TXA						
2E74-	65 8F	ADC	\$8F					
2E76-	85 8F	STA	\$8F					
2E78-	A6 85	LDX	\$85	X := Aux Bank Section we just processed				
2E7A-	90 E8	BCC	\$2E64	JMP Aux ADD LOOP (Always)				
2E7C-	A0 00	LDY	#\$00	To here after summing \$5F + \$18				
2E7E-	38	SEC		Now subtract \$EA.EB				
2E7F-	A5 8E	LDA	\$8E					
2E81-	E5 EA	SBC	\$EA					
2E83-	91 80	STA	(\$80),Y	and save results in 2nd param first word				
2E85-	C8	INY						
2E86-	A5 8F	LDA	\$8F					
2E88-	E5 EB	SBC	\$EB					
2E8A-	91 80	STA	(\$80),Y					
2E8C-	A2 00	LDX	#\$00					
2E8E-	60	RTS						

Read Blocks from DISK to CACHE								
\$22.23 = # of blocks I/O for this Aux section								
\$7C.7D = first Disk Block#								
\$EA.EB = # of blocks written to this Aux Section								
\$E8 = Aux Section index (0, 1, 2) for (03, 04, 01)								
[\$EA8F]								

2E8F-	A5 22	LDA	\$22						
2E91-	F0 02	BEQ	\$2E95						
2E93-	E6 23	INC	\$23						
				LOOP:					
2E95-	A5 7C	LDA	\$7C	\$34.35 := Disk Block#					
2E97-	85 34	STA	\$34						
2E99-	A5 7D	LDA	\$7D						
2E9B-	85 35	STA	\$35						
2E9D-	A9 04	LDA	#\$04	\$2D := #\$4 (S6D1)					
2E9F-	85 2D	STA	\$2D						
2EA1-	A9 02	LDA	#\$02	\$32.33 := #\$0200 Length (bytes)					
2EA3-	85 33	STA	\$33	\$30.31 := #\$0200 Destination					
2EA5-	85 31	STA	\$31						
2EA7-	A2 00	LDX	#\$00	X := 0 = Read					
2EA9-	86 32	STX	\$32						
2EAB-	86 30	STX	\$30						
2EAD-	86 2F	STX	\$2F	\$2F := 0					
[SEAAF]				-----					
2EAF-	20 EE F8	JSR	\$F8EE	Normal Disk Read I/O					
				(not Virtual (2F = 0))					

2EB2-	A5 EA	LDA	\$EA	\$34.35 := \$EA.EB					
2EB4-	85 34	STA	\$34						
2EB6-	A5 EB	LDA	\$EB						
2EB8-	85 35	STA	\$35						
2EBA-	A2 01	LDX	#\$01	\$8D := #\$01 = Write to Aux					
2EBC-	86 8D	STX	\$8D						
2EBE-	A6 E8	LDX	\$E8	X := \$E8 = Memory Bank Section					
				Index (3, 4, 1)					

2EC0-	20 94 E9	JSR	\$E994	ALTERNATE entry to R/W AUX					
				Write #\$0200 bytes					
				From: #\$0200					
				To: Aux Section X + Offset (\$34)					

2EC3-	E6 EA	INC	\$EA	\$EA.EB := \$EA.EB + 1					
2EC5-	D0 02	BNE	\$2EC9	INC # of blocks written to this section					
2EC7-	E6 EB	INC	\$EB						
2EC9-	E6 7C	INC	\$7C	\$7C.7D := 7C.7D + 1					
2ECB-	D0 02	BNE	\$2ECF	Advance to next disk block					
2ECD-	E6 7D	INC	\$7D						
2ECF-	C6 22	DEC	\$22	\$22.23 := \$22.23 - 1					
2ED1-	D0 C2	BNE	\$2E95	JMP LOOP					
2ED3-	C6 23	DEC	\$23						
2ED5-	D0 BE	BNE	\$2E95	JMP LOOP					
2ED7-	60	RTS							

				Insert Cache Record into Aux Bank #0,					
				Aux Section 3: \$D000..DFFF (bank 1)					
				\$E8 Aux Section Index (0, 1, 2, 3, 4, 5, ...)					
				(03 04 01)					
				\$E9 # of cache records in Aux Bank #0,					
				Aux Section 03: \$D000..\$D1FF (bank 1)					
				Reset to 0 by UNITWRITE(13, -3, 25, 0)					
				\$22.23 Amount of Disk I/O (in blocks) needed					
				for this Aux Section (could be a partial					
				amount).					

					\$7C.7D	Disk Block Request			
					\$EA.EB	# of blocks written to Aux Section			
					\$7B	Lucky to be 0 first time!			
					\$18..\$1F	become one cache record			
					[\$EAD8]				
2ED8-	A5 E9	LDA	\$E9	\$84 := \$E9 = # of cache records in Aux					
2EDA-	85 84	STA	\$84	(\$84 is decremented during search)					
2EDC-	A5 7C	LDA	\$7C	\$18.19 := \$7C.7D (Requested Disk Block)					
2EDE-	85 18	STA	\$18						
2EE0-	A5 7D	LDA	\$7D						
2EE2-	85 19	STA	\$19						
2EE4-	A5 EA	LDA	\$EA	\$1A.1B := \$EA.EB (# of blocks already written)					
2EE6-	85 1A	STA	\$1A						
2EE8-	A5 EB	LDA	\$EB						
2EEA-	85 1B	STA	\$1B						
2EEC-	A5 E8	LDA	\$E8	\$1C := \$E8 (Aux Section index: 0, 1, 2)					
2EEE-	85 1C	STA	\$1C	(03 04 01)					
2EF0-	18	CLC		\$1E.1F := \$7C.7D + \$22.23					
2EF1-	A5 7C	LDA	\$7C	Last Disk Block(+1) for this I/O					
2EF3-	65 22	ADC	\$22						
2EF5-	85 1E	STA	\$1E						
2EF7-	A5 7D	LDA	\$7D						
2EF9-	65 23	ADC	\$23						
2EFB-	85 1F	STA	\$1F						
2EFD-	A9 00	LDA	#\$00	\$1D := 0;					
2EFF-	85 1D	STA	\$1D	\$8C := 0; cache record block index					
2F01-	85 8C	STA	\$8C	0 = \$D000; 1 = \$D200; ...					
				Scan through cache records in Bank #0,					
				Section 03, \$D000..DFFF (bank 1) until the					
				Requested Disk block (\$7C.7D) is less than					
				the FirstBlock in a cache record.					
				If 64 cache records are searched, then \$8C					
				increments to the next block in \$D000..DFFF.					
				\$82.83 is the pointer to the current cache					
				record in the buffer at \$0200.					
				Search until Requested Disk Block < FirstBlock,					
				then exit OUTER LOOP.					
				[\$EB03]					
				OUTER LOOP:					
2F03-	A9 00	LDA	#\$00	\$82.83 := \$0200					
2F05-	85 82	STA	\$82						
2F07-	A9 02	LDA	#\$02						
2F09-	85 83	STA	\$83	-----					
2F0B-	20 88 E9	JSR	\$E988	Read Aux (\$D000 + \$8C * 512) Bank 1,					
				# \$0200 bytes to RAM at \$0200					

2F0E-	A9 40	LDA	#\$40	\$7E := #\$40					
2F10-	85 7E	STA	\$7E	Max of 64 cache records in a block					
				[\$EB12]					
				Loop:					
2F12-	A5 84	LDA	\$84	If no (more) cache records to search					
2F14-	F0 42	BEQ	\$2F58	JMP MiddleNextLoop					
2F16-	A0 01	LDY	#\$01	If Requested Disk Block <					
2F18-	A5 7D	LDA	\$7D	FirstBlock in current Aux record					

2FA7-	18	CLC						
2FA8-	60	RTS						

Some sort of error routine								
-- OR --								
Please Insert Scenario Diskette...								
Input:								
CBA.CBB := #0 #0								
CD2.CD3 := #\$FF1C = "Please Insert ..." msg								
C4 := "B" == insertion for disk#								
CE9.CEA := #\$FF3F = "Press ~ To Continue"								
[\$EBA9]								
2FA9-	A0 00	LDY	#\$00	Clear \$200	(#\$20	#\$00	values)	
2FAB-	A9 20	LDA	#\$20					
2FAD-	99 00 02	STA	\$0200,Y					
2FB0-	88	DEY						
2FB1-	A9 00	LDA	#\$00					
2FB3-	99 00 02	STA	\$0200,Y					
2FB6-	88	DEY						
2FB7-	D0 F2	BNE	\$2FAB					
2FB9-	A9 20	LDA	#\$20	Clear \$300	(#\$20	#\$00	values)	
2FBB-	99 00 03	STA	\$0300,Y					
2FBE-	88	DEY						
2FBF-	A9 00	LDA	#\$00					
2FC1-	99 00 03	STA	\$0300,Y					
2FC4-	88	DEY						
2FC5-	D0 F2	BNE	\$2FB9					
2FC7-	A9 02	LDA	#\$02	\$0A.0B :=	#\$020A			
2FC9-	85 0B	STA	\$0B					
2FCB-	A9 0A	LDA	#\$0A					
2FCD-	85 0A	STA	\$0A					
2FCF-	A9 4C	LDA	#\$4C	\$0E :=	#\$4C			
2FD1-	85 0E	STA	\$0E	\$10 :=	#\$4C			
2FD3-	85 10	STA	\$10					
2FD5-	A9 BA	LDA	#\$BA	A.X :=	#\$0CBA	PTR to	????	no message
2FD7-	A2 0C	LDX	#\$0C					
2FD9-	20 2B EC	JSR	\$EC2B	JSR	\$EC2B			
[\$EBDC]								
2FDC-	A9 D2	LDA	#\$D2	A.X :=	#\$0CD2	PTR to	\$\$\$F1C	message
2FDE-	A2 0C	LDX	#\$0C	\$\$\$F1C	"Please Insert	SCENARIO	Diskette	%c"
2FE0-	20 2B EC	JSR	\$EC2B	JSR	\$EC2B			
2FE3-	A9 E9	LDA	#\$E9	A.X :=	#\$0CE9	PTR to	\$\$\$F3F	message
2FE5-	A2 0C	LDX	#\$0C	\$\$\$F3F	"Press ~	To	Continue"	
2FE7-	20 2B EC	JSR	\$EC2B	JSR	\$EC2B			
2FEA-	A2 00	LDX	#\$00					
2FEC-	8E 02 02	STX	\$0202					
2FEF-	A9 09	LDA	#\$09					
2FF1-	8D 03 02	STA	\$0203					
2FF4-	A9 28	LDA	#\$28					
2FF6-	8D 04 02	STA	\$0204					
2FF9-	A9 05	LDA	#\$05					
2FFB-	8D 05 02	STA	\$0205					
2FFE-	A9 3F	LDA	#\$3F					
3000-	8D 08 02	STA	\$0208					
3003-	A9 02	LDA	#\$02					
3005-	85 31	STA	\$31					

3069-	A9 A0	LDA	#\$A0		
306B-	A4 06	LDY	\$06		
306D-	C4 0E	CPY	\$0E		
306F-	B0 35	BCS	\$30A6		
3071-	91 0A	STA	(\$0A),Y		
3073-	C8	INY			
3074-	D0 F7	BNE	\$306D		
[\$EC76]					
3076-	38	SEC			
3077-	A5 0E	LDA	\$0E		
3079-	E5 06	SBC	\$06		
307B-	90 29	BCC	\$30A6		
307D-	4A	LSR			
307E-	29 7E	AND	#\$7E		
3080-	F0 24	BEQ	\$30A6		
3082-	48	PHA			
3083-	18	CLC			
3084-	65 0A	ADC	\$0A		
3086-	85 04	STA	\$04		
3088-	A9 00	LDA	#\$00		
308A-	65 0B	ADC	\$0B		
308C-	85 05	STA	\$05		
308E-	A4 06	LDY	\$06		
3090-	88	DEY			
3091-	88	DEY			
[\$EC92]					
3092-	B1 0A	LDA	(\$0A),Y	Transfer Message	
3094-	91 04	STA	(\$04),Y	"Please Insert Scenario Diskette...."	
3096-	88	DEY			
3097-	88	DEY			
3098-	10 F8	BPL	\$3092		
309A-	68	PLA			
309B-	A8	TAY			
309C-	A9 20	LDA	#\$20	' '	
309E-	D0 02	BNE	\$30A2		
30A0-	91 0A	STA	(\$0A),Y		
30A2-	88	DEY			
30A3-	88	DEY			
30A4-	10 FA	BPL	\$30A0		
30A6-	A5 10	LDA	\$10		
30A8-	18	CLC			
30A9-	65 0A	ADC	\$0A		
30AB-	85 0A	STA	\$0A		
30AD-	90 02	BCC	\$30B1		
30AF-	E6 0B	INC	\$0B		
30B1-	60	RTS			

Found "%" in message					
[\$ECB2]					
30B2-	C8	INY			
30B3-	B1 02	LDA	(\$02),Y		
30B5-	E6 07	INC	\$07		
30B7-	AA	TAX			
30B8-	A4 09	LDY	\$09		
30BA-	B1 00	LDA	(\$00),Y		
30BC-	E6 09	INC	\$09		
30BE-	E0 63	CPX	#\$63		

30C0-	F0 91	BEQ	\$3053	"return"					
30C2-	E0 68	CPX	#\$68						
30C4-	D0 05	BNE	\$30CB						
30C6-	AA	TAX							
30C7-	A9 00	LDA	#\$00						
30C9-	F0 17	BEQ	\$30E2						
30CB-	E0 62	CPX	#\$62						
30CD-	D0 09	BNE	\$30D8						
30CF-	A0 01	LDY	#\$01						
30D1-	20 43 FE	JSR	\$FE43	JSR \$FE43					
30D4-	A2 01	LDX	#\$01						
30D6-	D0 19	BNE	\$30F1						
30D8-	E6 09	INC	\$09						
30DA-	C8	INY							
30DB-	E0 78	CPX	#\$78						
30DD-	F0 27	BEQ	\$3106						
30DF-	AA	TAX							
30E0-	B1 00	LDA	(\$00),Y						
30E2-	20 C8 FA	JSR	\$FAC8	JSR \$FAC8					
30E5-	A2 05	LDX	#\$05						
30E7-	CA	DEX							
30E8-	F0 07	BEQ	\$30F1						
30EA-	BD AA 0C	LDA	\$0CAA,X	\$0CAA					
30ED-	C9 30	CMP	#\$30						
30EF-	F0 F6	BEQ	\$30E7						
30F1-	A4 06	LDY	\$06						
30F3-	24 F1	BIT	\$F1	(??)					
30F5-	BD AA 0C	LDA	\$0CAA,X	\$0CAA					
30F8-	C4 0E	CPY	\$0E						
30FA-	B0 02	BCS	\$30FE						
30FC-	91 0A	STA	(\$0A),Y						
30FE-	C8	INY							
30FF-	C8	INY							
3100-	CA	DEX							
3101-	10 F2	BPL	\$30F5						
3103-	4C 5F EC	JMP	\$EC5F	"return"					
3106-	AA	TAX							
3107-	B1 00	LDA	(\$00),Y						
3109-	20 3D FE	JSR	\$FE3D						
310C-	A2 03	LDX	#\$03						
310E-	D0 E1	BNE	\$30F1						

Processing UNITNUMBER #D UNITREAD/WRITE									
UNITWRITE(UNIT, ARRAY, LENGTH, BLOCK#, MODE)									
\$2D \$30.31 \$32.33 \$34.35 \$2E.2F									
FUNCTION									
[\$ED10]									
3110-	A9 00	LDA	#\$00						
3112-	85 F0	STA	\$F0						
3114-	A5 32	LDA	\$32	Function e.g., #1F=Read SYSTEM.RELOC to \$1000					
3116-	C9 23	CMP	#\$23	> 34?					
3118-	B0 05	BCS	\$311F	Yes, \$ED1F ERROR					
311A-	0A	ASL							
311B-	A8	TAY		Y := index into \$ED29 table					
311C-	20 22 ED	JSR	\$ED22	JSR \$ED22					
311F-	A6 F0	LDX	\$F0						
3121-	60	RTS							

[\$ED22]									
3122-	B9 2A ED	LDA	\$ED2A,Y						
3125-	48	PHA							
3126-	B9 29 ED	LDA	\$ED29,Y						
3129-	48	PHA		\$ED29 Table starts here (!)					
312A-	60	RTS							

[\$ED2B]									
5A F1	[\$01] (01)	\$F15B	Initial CLEARSCREEN, return KANMP04[] config, sets \$F1						
6E ED	[\$02] (02)	\$ED6F	DRAWSCR() UNITWRITE(BASE12, WINCHAIN^, 2, 0)						
5A F1	[\$03] (03)	\$F15B	In P01060E after "S)tart Game" displayed						
5A F1	[\$04] (04)								
5A F1	[\$05] (05)								
1E ED	[\$06] (06)	xxxxx							
1E ED	[\$07] (07)	xxxxx							
1E ED	[\$08] (08)	xxxxx							
1E ED	[\$09] (09)	xxxxx							
52 EE	[\$0A] (10)	\$EE53	RANDOM() function call						
88 EE	[\$0B] (11)		in KANJIREA, after title screen displayed. and S)tart M)ake displ						
97 EE	[\$0C] (12)	\$EE98							
5A F1	[\$0D] (13)	\$F15B	after random chars chosen to display						
5A F1	[\$0E] (14)	\$F15B	processing '200.CHARSET'						
5A F1	[\$0F] (15)								
DC EE	[\$10] (16)	\$EEDD	SearchBF()						
5A F1	[\$11] (17)								
5A F1	[\$12] (18)	\$F15B	processing '200.MONSTERS'						
A4 EE	[\$13] (19)	\$EEA5	after displaying 4 MONSTER pics waiting for S) or M)						
7A F0	[\$14] (20)	\$F07B	"Formatting Diskette"						
9B EE	[\$15] (21)	\$EE9C	After "Formatting Diskette" and before COPYING disk						
1E EE	[\$16] (22)	\$EE1F							
5A F1	[\$17] (23)	\$F15B							
31 EE	[\$18] (24)	\$EE32							
83 F0	[\$19] (25)	\$F084	Cache stuff						
E8 EF	[\$1A] (26)	\$EFE9	Concatenate strings						
B9 F0	[\$1B] (27)	\$F0BA	from P010055() with string messages						
1E ED	[\$1C] (28)	xxxxx							
1E F0	[\$1D] (29)	\$F01F							
5A F1	[\$1E] (30)	\$F15B	From CENTSTR() and P010022()						
79 ED	[\$1F] (31)	\$ED7A							
76 EF	[\$20] (32)	\$EF77	ASCII.HUFF to \$0D00..\$0EFF						
91 EF	[\$21] (33)	\$EF92	Message string processing						
5A F1	[\$22] (34)	\$F15B	DrawMaze code (?) See P010B04()						

[\$ED6F] From above for DRAWSCR() and DRAWSCR2()									
A5 30	LDA	\$30							
85 EC	STA	\$EC							
A5 31	LDA	\$31							
85 ED	STA	\$ED							
4C 5B F1	JMP	\$F15B							

UNITREAD(BASE12, MP04, 31, MP03)									
\$2D \$30.31 \$32.33 \$34.35 \$2E.2F									
MP04 = 0 Read SYSTEM.RELOC									
MP04 = 1									
MP04 = 2 in SHOPS P01080D()									
MP04 = 4 Convert from "Virtual"									
[\$ED7A]									
317A-	A0 00	LDY	#\$00	Check input buffer (BASE.9) 0, 1, etc.					
317C-	B1 30	LDA	(\$30),Y	#BASE.9 in WIZARDRY Proc 1					
317E-	F0 2C	BEQ	\$31AC [\$EDAC] 0?	Yes, \$EDAC (...first time) Read SYSTEM.RELOC					
3180-	C9 02	CMP	#\$02						
3182-	F0 0F	BEQ	\$3193	2? Yes, \$3193					

3184-	B0 12	BCS	\$3198	3+? Yes, \$3198			
				1? Yes, \$ED88			
				[\$ED88]			
3186-	A9 80	LDA	#\$80	"Virtual Disk" flag := #\$80			
3188-	85 F2	STA	\$F2	\$F2 := #\$80			
318A-	85 2F	STA	\$2F	\$2F := #\$80			
318C-	A2 04	LDX	#\$04	Function := 4 = Convert from "Virtual"			
318E-	86 2D	STX	\$2D	\$2D := #\$4			
3190-	4C EE F8	JMP	\$F8EE				
				[\$ED93]			
3193-	A9 00	LDA	#\$00	Reset "Virtual Disk" flag for SYSTEM.RELOC			
3195-	85 F2	STA	\$F2	This happens when "M)aking" Scenario			
3197-	60	RTS		disks. And M)ove Save Games.			
3198-	C9 03	CMP	#\$03				
319A-	F0 0B	BEQ	\$31A7				
319C-	A2 04	LDX	#\$04	Function := 4 = Convert from "Virtual" (?)			
319E-	86 2D	STX	\$2D				
31A0-	A9 C0	LDA	#\$C0	\$2F := #\$C0			
31A2-	85 2F	STA	\$2F				
31A4-	4C EE F8	JMP	\$F8EE				
31A7-	A5 34	LDA	\$34				
31A9-	4C 36 FD	JMP	\$FD36				

				Read SYSTEM.RELOC to \$1000 and adjust NP.			
				UNITWRITE (13, 0, 31, 0) (WRITE VOL#)			
				[\$EDAC]			
31AC-	A9 00	LDA	#\$00	\$32.33 := 6 == Length of I/O #\$600			
31AE-	85 32	STA	\$32	6 Sectors (3 Blocks)			
31B0-	A9 06	LDA	#\$06				
31B2-	85 33	STA	\$33				
31B4-	A9 00	LDA	#\$00	\$30.31 := #\$1000 Buffer address			
31B6-	85 30	STA	\$30				
31B8-	A9 10	LDA	#\$10				
31BA-	85 31	STA	\$31				
31BC-	A9 04	LDA	#\$04	\$2D := 4 (Slot 6, Drive 1)			
31BE-	85 2D	STA	\$2D				
31C0-	A2 00	LDX	#\$00	X := 0 === Read request			
				[\$EDC2]			
31C2-	20 5C E8	JSR	\$E85C	Read a bunch of sectors			
31C5-	A9 10	LDA	#\$10	\$C8.C9 := #\$1002 == Disk Section #1			
31C7-	85 C9	STA	\$C9				
31C9-	A9 02	LDA	#\$02	5 Disk Sections for WIZARDRY IV			
31CB-	85 C8	STA	\$C8				
				[\$EDCD]			
31CD-	A0 00	LDY	#\$00	LOOP outer			
31CF-	B1 C8	LDA	(\$C8),Y	Get DISK NUMBER (1, 2, 3, 4, or 5)			
31D1-	F0 3E	BEQ	\$3211				
31D3-	A0 02	LDY	#\$02	Get # of Segment Sections			
31D5-	B1 C8	LDA	(\$C8),Y	for this DISK NUMBER			
31D7-	AA	TAX					
31D8-	C8	INY					
31D9-	B1 C8	LDA	(\$C8),Y				
31DB-	85 1A	STA	\$1A				
31DD-	C8	INY		LOOP inner			
31DE-	B1 C8	LDA	(\$C8),Y				
31E0-	85 34	STA	\$34	Groups of 3 words:			

					BEEP! the Speaker				
	[\$EE2C]								
		2C		\$2C	F0				
		16		\$16	60				
		24		\$24	D0				
	[\$EE2F]								
		F0							
		60							
		D0							

						BEEP! the Speaker			
						UNITWRITE(xxx, 0, 24, xxx)			
		\$34							
						See P010038() and P010002()			
	[\$EE32]								
	3232	24 E7	BIT	\$E7	\$E7 10000000 = CTRL-D pressed				
					01000000 = CTRL-S pressed				
	3234-	70 1C	BVS	\$3252	CTRL-S? Yes, RTS (Ignore it)				
	3236-	A6 34	LDX	\$34	No.				
	3238-	E0 03	CPX	#\$03	\$34 > 2?				
	323A-	B0 16	BCS	\$3252	Yes, \$EE52 RTS				
		1/2/2000							
						--- --			
	323C-	BD 2C EE	LDA	\$EE2C,X	\$02 := F0 60 D0				
	323F-	85 02	STA	\$02	\$01 := 2C 16 24				
	3241-	BD 2F EE	LDA	\$EE2F,X					
	3244-	85 01	STA	\$01					
						Timing Loop			
	3246-	A4 02	LDY	\$02					
	3248-	20 28 EE	JSR	\$EE28	Wait a bit				
	324B-	AD 30 C0	LDA	\$C030	Click the SPEAKER (Sound)				
	324E-	C6 01	DEC	\$01					
	3250-	D0 F4	BNE	\$3246					
	3252-	60	RTS						

						RANDOM() function call			
	[\$EE53]								
	3253-	A0 07	LDY	#\$07					
	3255-	06 F6	ASL	\$F6					
	3257-	08	PHP						
	3258-	26 F7	ROL	\$F7					
	325A-	26 F8	ROL	\$F8					
	325C-	26 F9	ROL	\$F9					
	325E-	30 05	BMI	\$3265					
	3260-	28	PLP						
	3261-	10 07	BPL	\$326A					
	3263-	30 03	BMI	\$3268					
	3265-	28	PLP						
	3266-	30 02	BMI	\$326A					
	3268-	E6 F6	INC	\$F6					
	326A-	88	DEY						
	326B-	D0 E8	BNE	\$3255					
	326D-	A5 F6	LDA	\$F6					
	326F-	4A	LSR						
	3270-	AA	TAX						
	3271-	A5 F8	LDA	\$F8					
	3273-	4C 8F EE	JMP	\$EE8F	Return the RANDOM() number				

	[\$EE76]								
	3276-	20 7D E7	JSR	\$E77D	check keyboard for input				

3279-	E6 F6	INC	\$F6	Random #				
327B-	D0 02	BNE	\$327F					
327D-	E6 F7	INC	\$F7	Random #				
327F-	A2 00	LDX	#\$00	x := 0 (FALSE) = no char avail				
3281-	A5 E0	LDA	\$E0	Input buffer ptr (first char avail)				
3283-	C5 E1	CMP	\$E1	Input buffer ptr (last char avail)				
3285-	F0 01	BEQ	\$3288	Was buffer full? Yes, RTS				
3287-	E8	INX		x := 1 (TRUE) = character avail				
3288-	60	RTS						

UNITREAD(\$D, mp03, 11, 0)								
KeyPress								
[\$EE89]								
3289-	20 76 EE	JSR	\$EE76					
328C-	8A	TXA		A := 1 if character gotten				
328D-	A2 00	LDX	#\$00					
[\$EE8F]								
328F-	A0 00	LDY	#\$00					
3291-	91 30	STA	(\$30),Y	Return status				
3293-	8A	TXA						
3294-	C8	INY						
3295-	91 30	STA	(\$30),Y	Whole word for boolean(!?)				
3297-	60	RTS		Small bug if A = 1				
(00000001 00000001) == TRUE (!)								

3298-	A9 01	LDA	#\$01					
329A-	D0 F1	BNE	\$328D					

Just after Formatting Diskette								
and before COPYING								
[\$EE9C]								
329C-	A2 08	LDX	#\$08	Function := 8				
329E-	A9 04	LDA	#\$04	Device := 4				
32A0-	85 2D	STA	\$2D					
[\$EEA2]								
32A2-	4C FE E7	JMP	\$E7FE					

MP01 := 2; Timing value for MAJOR LOOP								
UNITWRITE(BASE12, MP01, 19, MP01)								
[\$EEA5]								
32A5-	24 E7	BIT	\$E7	Check \$E7 for CTRL-D toggle (???)				
32A7-	30 33	BMI	\$32DC	Set, so just RTS				
32A9-	24 FE	BIT	\$FE	Apple Configuration (?)				
32AB-	50 04	BVC	\$32B1	Bit 6 is clear? \$EEB1				
Bit 6 is set. This is APPLE II GS (?)								
32AD-	06 34	ASL	\$34	\$34.35 := 2 * \$34.35				
32AF-	26 35	ROL	\$35					
32B1-	A4 34	LDY	\$34					
MAJOR LOOP								
32B3-	A2 60	LDX	#\$60	Prepare for MINOR LOOP				
32B5-	86 00	STX	\$00					
MINOR LOOP								
32B7-	A2 C5	LDX	#\$C5	Timing value				
32B9-	CA	DEX		Timing loop				
32BA-	D0 FD	BNE	\$32B9					

32BC-	20 76 EE	JSR	\$EE76	JSR EE76 Check keyboard for input				
...and update RANDOM #								

32BF-	A5 E5	LDA	\$E5	Key pressed? (\$E5 is the char)				

32C1-	30 19	BMI	\$32DC	Yes, RTS	(in INPUT buffer)			
32C3-	24 FE	BIT	\$FE	Keyboard have Open and Closed Apple Keys?				
32C5-	30 0A	BMI	\$32D1	No, \$EED1				
				Yes, check them				
32C7-	AD 61 C0	LDA	\$C061	"Open Apple" key pressed?				
32CA-	30 10	BMI	\$32DC	Yes, RTS				
32CC-	AD 62 C0	LDA	\$C062	"Closed Apple" key pressed?				
32CF-	30 0B	BMI	\$32DC	Yes, RTS				
32D1-	C6 00	DEC	\$00					
32D3-	D0 E2	BNE	\$32B7	MINOR LOOP, up to #\$60 times				
32D5-	88	DEY						
32D6-	D0 DB	BNE	\$32B3	MAJOR LOOP				
32D8-	C6 35	DEC	\$35					
32DA-	10 D7	BPL	\$32B3	MAJOR LOOP				
32DC-	60	RTS						

UNITREAD(#D, array[0..1], 16, # like 2040) from P01003F(). SEARCHBF()								
Input: \$30.31 --> array with 2(?) pointers to TCACHEP (?) structures.								
\$34 Number like 2040 to 2046, etc.								
Structures are in a doubly linked list. "MSG" or cache buffers (?)								
This code takes the "FOUND" packet and moves it to the front of the chain.								
If the packet is not found then it still moves the last packet in the chain to the front to be reused.								
[\$EEDD]								
32DD-	A0 00	LDY	#\$00	A.B -> First "MSG" ptr buffer				
32DF-	B1 30	LDA	(\$30),Y	8.9 -> First "MSG" ptr buffer				
32E1-	85 0A	STA	\$0A					
32E3-	85 08	STA	\$08					
32E5-	C8	INY						
32E6-	B1 30	LDA	(\$30),Y					
32E8-	85 0B	STA	\$0B					
32EA-	85 09	STA	\$09					
TRYANOTHER:								
32EC-	A0 00	LDY	#\$00	A.B point to magic number?				
32EE-	B1 0A	LDA	(\$0A),Y					
32F0-	C5 34	CMP	\$34					
32F2-	D0 07	BNE	\$32FB	No, \$EEFB				
32F4-	C8	INY						
32F5-	B1 0A	LDA	(\$0A),Y					
32F7-	C5 35	CMP	\$35					
32F9-	F0 1B	BEQ	\$3316	Yes, \$EF16				
32FB-	A0 02	LDY	#\$02	No. Try next buffer in chain				
32FD-	B1 0A	LDA	(\$0A),Y					
32FF-	AA	TAX						
[\$EF00]								
3300-	C8	INY						
3301-	B1 0A	LDA	(\$0A),Y					
3303-	85 0B	STA	\$0B					
3305-	86 0A	STX	\$0A					
3307-	05 0A	ORA	\$0A					

3309-	D0 E1	BNE	\$32EC	JMP TRYANOTHER if not NIL				
330B-	A0 02	LDY	#\$02	Not found in first chain,				
330D-	B1 30	LDA	(\$30),Y	so use 2nd ptr				
330F-	85 0A	STA	\$0A					
3311-	C8	INY						
3312-	B1 30	LDA	(\$30),Y					
3314-	85 0B	STA	\$0B					
				Found "Magic" number				
				-or- Not found so use 2nd ptr				
	[\$EF16]							
3316-	A0 05	LDY	#\$05	C.D := back ptr in buffer				
3318-	B1 0A	LDA	(\$0A),Y					
331A-	85 0D	STA	\$0D					
331C-	88	DEY						
331D-	B1 0A	LDA	(\$0A),Y					
331F-	85 0C	STA	\$0C					
3321-	05 0D	ORA	\$0D					
3323-	F0 51	BEQ	\$3376	If NIL, then RTS				
3325-	A5 0A	LDA	\$0A					
3327-	91 08	STA	(\$08),Y					
3329-	C8	INY						
332A-	A5 0B	LDA	\$0B					
332C-	91 08	STA	(\$08),Y					
332E-	A0 02	LDY	#\$02					
3330-	B1 0A	LDA	(\$0A),Y					
3332-	85 0E	STA	\$0E					
3334-	91 0C	STA	(\$0C),Y					
3336-	C8	INY						
3337-	B1 0A	LDA	(\$0A),Y					
3339-	85 0F	STA	\$0F					
333B-	91 0C	STA	(\$0C),Y					
333D-	05 0E	ORA	\$0E					
333F-	F0 0D	BEQ	\$334E					
				Do this...				
3341-	C8	INY						
3342-	A5 0C	LDA	\$0C					
3344-	91 0E	STA	(\$0E),Y					
3346-	C8	INY						
3347-	A5 0D	LDA	\$0D					
3349-	91 0E	STA	(\$0E),Y					
334B-	4C 5B EF	JMP	5EF5B					
				or this...				
334E-	A0 02	LDY	#\$02					
3350-	A5 0C	LDA	\$0C					
3352-	91 30	STA	(\$30),Y					
3354-	C8	INY						
3355-	A5 0D	LDA	\$0D					
3357-	91 30	STA	(\$30),Y					
3359-	A0 05	LDY	#\$05					
				...and continue here				
	[\$EF5B]							
335B-	A9 00	LDA	#\$00					
335D-	91 0A	STA	(\$0A),Y					
335F-	88	DEY						
3360-	91 0A	STA	(\$0A),Y					
3362-	88	DEY						
3363-	A5 09	LDA	\$09					
3365-	91 0A	STA	(\$0A),Y					
3367-	88	DEY						
3368-	A5 08	LDA	\$08					
336A-	91 0A	STA	(\$0A),Y					

336C-	88	DEY						
336D-	A5 0B	LDA	\$0B					
336F-	91 30	STA	(\$30),Y					
3371-	88	DEY						
3372-	A5 0A	LDA	\$0A					
3374-	91 30	STA	(\$30),Y					
3376-	60	RTS						

ASCII.HUFF								
(T\$1B S\$00; T\$1B S\$0E; T\$1B S\$0D)								
[\$EF77]								
3377-	A9 00	LDA	#\$00	\$34.35 :=	#\$0D00			
3379-	85 34	STA	\$34					
337B-	A9 0D	LDA	#\$0D					
337D-	85 35	STA	\$35					
337F-	A2 03	LDX	#\$03	Xfer 3 sectors	(less than 2 Blocks)			
3381-	A0 00	LDY	#\$00					
3383-	B1 30	LDA	(\$30),Y	From BUFFER[]...				
3385-	91 34	STA	(\$34),Y	...to \$0D00..\$0FFF				
3387-	88	DEY						
3388-	D0 F9	BNE	\$3383					
338A-	E6 31	INC	\$31					
338C-	E6 35	INC	\$35					
338E-	CA	DEX						
338F-	D0 F2	BNE	\$3383					
3391-	60	RTS						

Huffman decoding for Messages								
Message string processing								
\$30.31 == Disk Buffer with MESSAGES								
512 bytes (No Header)								
(\$1C62 first time)								
\$2E.\$2F is #0000								
\$34.35 ("TO" buffer)								
...first time \$7FB4								
[\$EF92]								
3392-	A0 00	LDY	#\$00					
3394-	84 14	STY	\$14					
3396-	B1 30	LDA	(\$30),Y					
3398-	85 12	STA	\$12					
339A-	A5 12	LDA	\$12					
339C-	C8	INY						
339D-	84 15	STY	\$15					
339F-	A2 08	LDX	#\$08					
33A1-	20 B1 EF	JSR	EFB1	JSR EFB1	Unscramble the first char			
33A4-	A8	TAY		(message length)				
33A5-	F0 09	BEQ	\$33B0	RTS				
33A7-	85 11	STA	\$11					
Loop:								
33A9-	20 B1 EF	JSR	EFB1	JSR EFB1	Unscramble a char			
33AC-	C6 11	DEC	\$11					
33AE-	D0 F9	BNE	\$33A9	JMP	Loop			
33B0-	60	RTS						

(from above) Process "from" bits, and return								
an ASCII character in the buffer.								
X := 8 (8 bits per byte)								
\$12 := a "from" byte								
[\$EFB1]								

33B1-	A9 00	LDA	#\$00					
				LOOP:	\$EFB3			
33B3-	A8	TAY						
33B4-	CA	DEX						
33B5-	30 22	BMI	\$33D9	8 bits processed.	Get next "from" byte			
	[\$EFB7]							
33B7-	46 12	LSR	\$12	TAG1:				
33B9-	B9 00 0D	LDA	\$0D00,Y					
33BC-	B0 0E	BCS	\$33CC					
33BE-	4A	LSR						
33BF-	4A	LSR						
33C0-	B9 00 0F	LDA	\$0F00,Y					
33C3-	90 EE	BCC	\$33B3	JMP LOOP:	\$EFB3			
33C5-	A4 14	LDY	\$14					
33C7-	91 34	STA	(\$34),Y	Store "TO" char				
33C9-	E6 14	INC	\$14					
33CB-	60	RTS		RETURN				
33CC-	4A	LSR						
33CD-	B9 00 0E	LDA	\$0E00,Y					
33D0-	90 E1	BCC	\$33B3	JMP LOOP:	\$EFB3			
33D2-	A4 14	LDY	\$14					
33D4-	91 34	STA	(\$34),Y	Store "TO" char				
33D6-	E6 14	INC	\$14					
33D8-	60	RTS		RETURN				
	(from above)							
				Get next "from" byte				
33D9-	84 1A	STY	\$1A	Save Y				
33DB-	A4 15	LDY	\$15					
33DD-	B1 30	LDA	(\$30),Y	Get next byte				
33DF-	85 12	STA	\$12					
33E1-	E6 15	INC	\$15	Advance to next "from" byte				
33E3-	A4 1A	LDY	\$1A	Restore Y				
33E5-	A2 07	LDX	#\$07	X := 7 process 8 bits in byte				
33E7-	D0 CE	BNE	\$33B7	JMP TAG1:	\$EFB7			
				Concatenate Strings				
	[\$EFE9]							
33E9-	A5 2E	LDA	\$2E	Mode				
33EB-	05 2F	ORA	\$2F					
33ED-	F0 0B	BEQ	\$33FA					
33EF-	20 FA EF	JSR	\$E9FA					
33F2-	A5 2E	LDA	\$2E					
33F4-	85 34	STA	\$34					
33F6-	A5 2F	LDA	\$2F					
33F8-	85 35	STA	\$35					
	[\$E9FA]							
33FA-	18	CLC						
33FB-	A0 00	LDY	#\$00					
33FD-	B1 30	LDA	(\$30),Y					
33FF-	AA	TAX						
3400-	71 34	ADC	(\$34),Y					
3402-	91 30	STA	(\$30),Y					
3404-	18	CLC						
3405-	8A	TXA						
3406-	65 30	ADC	\$30					
3408-	85 0A	STA	\$0A					
340A-	A9 00	LDA	#\$00					
340C-	65 31	ADC	\$31					

340E-	85 0B	STA	\$0B						
3410-	B1 34	LDA	(\$34),Y						
3412-	F0 08	BEQ	\$341C						
3414-	A8	TAY							
3415-	B1 34	LDA	(\$34),Y						
3417-	91 0A	STA	(\$0A),Y						
3419-	88	DEY							
341A-	D0 F9	BNE	\$3415						
341C-	A2 00	LDX	#\$00						
341E-	60	RTS							

POS() STRING Function == Find SUBSTRING in another STRING									
UNITWRITE(#D, MP106, 29, GETADDR(MP04), GETADDR(MP03));									
\$30.31 \$34.35 \$2E.2F									
These are STRINGS. e.g.:									
'^' Insert Master Diskette into Drive ^									
First byte = LENGTH									
After answering "N" in Make Scenario,									
where the disk already has data on it.									
(and this is SKIPPED if ESC is pressed to earlier solicit)									
[F01F]									
341F-	A9 00	LDA	#\$00	\$30.31 := 0 (Word 0)					
3421-	A0 01	LDY	#\$01						
3423-	91 30	STA	(\$30),Y						
3425-	20 5E F0	JSR	\$F05E	JSR \$F05E					
Y := 0; STA (\$30),Y; LDX #0									
3428-	B1 34	LDA	(\$34),Y	LENGTH(MP04) = 0?					
342A-	F0 36	BEQ	\$3462	Yes, F062 RTS					
342C-	85 13	STA	\$13	\$13 := LENGTH(MP04)					
342E-	B1 2E	LDA	(\$2E),Y	LENGTH(MP03) = 0?					
3430-	F0 30	BEQ	\$3462	Yes, F062 RTS					
3432-	38	SEC		LENGTH(MP04) > LENGTH(MP03)?					
3433-	E5 13	SBC	\$13						
3435-	90 2B	BCC	\$3462	Yes, F062 RTS					
3437-	69 00	ADC	#\$00	\$0C := difference in lengths + 1 (?)					
3439-	85 0C	STA	\$0C						
343B-	84 0D	STY	\$0D	\$0D := 0; Length in \$30.31 string					
343D-	A5 2E	LDA	\$2E	\$0A.0B := \$2E.2F					
343F-	85 0A	STA	\$0A						
3441-	A5 2F	LDA	\$2F						
3443-	85 0B	STA	\$0B						
\$3445:									
3445-	A4 0D	LDY	\$0D						
3447-	C4 0C	CPY	\$0C						
3449-	B0 17	BCS	\$3462	Done? Yes, F062 RTS					
344B-	C8	INY		Increment \$30.31 string length					
344C-	84 0D	STY	\$0D						
344E-	A6 13	LDX	\$13						
3450-	A0 01	LDY	#\$01	First char in \$34.35					
LOOP:									
3452-	B1 34	LDA	(\$34),Y	Get char from MP04 string					
3454-	D1 0A	CMP	(\$0A),Y	Match char in MP03?					
3456-	D0 0D	BNE	\$3465	No, \$F065					

3458-	C8	INY	Yes, that char matches			
3459-	CA	DEX				
345A-	D0 F6	BNE \$3452	JMP LOOP:			
345C-	A5 0D	LDA \$0D				
	[F05E]					
345E-	A0 00	LDY #\$00				
3460-	91 30	STA (\$30),Y				
3462-	A2 00	LDX #\$00				
3464-	60	RTS				

3465-	E6 0A	INC \$0A	INC \$A.\$B,D to next			
3467-	D0 02	BNE \$346B				
3469-	E6 0B	INC \$0B				
346B-	A4 0D	LDY \$0D				
346D-	B1 2E	LDA (\$2E),Y				
346F-	10 D4	BPL \$3445	JMP to \$3445 with this ASCII char			
3471-	E6 0A	INC \$0A	Char is non-ASCII			
3473-	D0 02	BNE \$3477	So skip over it (?)			
3475-	E6 0B	INC \$0B				
3477-	E6 0D	INC \$0D				
3479-	D0 CA	BNE \$3445	JMP (always) to \$3445			

			UNITWRITE(BASE12, MP11^, 20, DCMP03)			
			"Formatting Diskette"			
			See P010C01() after P010C0A() call.			
	[F07B]					
347B-	A5 34	LDA \$34	Disk unit (4 or 5)			
347D-	85 2D	STA \$2D				
347F-	A2 03	LDX #\$03	INIT DISK			
	[F081]					
3481-	4C FE E7	JMP \$E7FE	JMP \$E7FE			

			UNITWRITE(13, 0, 25, 0) Cache Size			
			UNITWRITE(13, -1, 25, 0) CachOff \$EE := 0			
			UNITWRITE(13, -2, 25, 0) CachOn \$EE := -1			
			UNITWRITE(13, -3, 25, 0)			
			UNITWRITE(13, ++, 25, 0) Do I/O to Aux Cache			

			2 words, both positive			
			In DOCOPY()			
			CACHE			
	[F084]					
3484-	A0 00	LDY #\$00	\$7C.7D := Param2 Word 0			
3486-	B1 30	LDA (\$30),Y				
3488-	85 7C	STA \$7C				
348A-	8D BE 0C	STA \$0CBE	Clobbers in \$CB0..CC7			
348D-	C8	INY	(not needed, no need to (?))			
348E-	B1 30	LDA (\$30),Y				
3490-	85 7D	STA \$7D				
3492-	8D BF 0C	STA \$0CBF	Clobbers in \$CB0..CC7			
3495-	10 18	BPL \$34AF	Param2 Word 0 >= 0? Yes, \$F0AF			
3497-	A6 7C	LDX \$7C	Negative			
3499-	E0 FD	CPX #\$FD	Compare to -3			
349B-	90 12	BCC \$34AF	< -3? (-4, -5, etc.) Yes, \$F0AF			
349D-	D0 0C	BNE \$34AB	-1 or -2? Yes, \$0AB			

349F-	A2 00	LDX	#\$00	-3				
34A1-	86 E9	STX	\$E9	\$E9 := \$EA := \$EB := 0;				
34A3-	86 EA	STX	\$EA	\$EA.EB == # of blocks written to Aux CACHE				
34A5-	86 EB	STX	\$EB					
34A7-	E8	INX						
34A8-	86 E8	STX	\$E8	\$E8 := 1;				
34AA-	60	RTS						
				-1 or -2				
[F0AB]								
34AB-	E8	INX		X := X + 1.				
34AC-	86 EE	STX	\$EE	\$EE := X (0 or -1)				
34AE-	60	RTS						
				Param2 word 0 >= 0 (or < -3 really?)				
[F0AF]								
34AF-	A9 60	LDA	#\$60					
34B1-	85 2F	STA	\$2F	\$2F := #\$60				
34B3-	A2 04	LDX	#\$04	X := 4 == Function = Aux cache I/O				
34B5-	86 2D	STX	\$2D	Device := 4;				
34B7-	4C 5C E8	JMP	\$E85C	Y = 1 (Param2, word 0 byte 1)				

ASCII.HUFF processing								
UNITWRITE(BASE12, buffer, 27, 0, #)								
Message String Processing								
Part 1 - Determine relative offset in block to HUFF bytes for message.								
\$30.31 == Disk Buffer with MESSAGES 6 byte header + 512 bytes								
\$2E.\$2F is msg # (relative to first in block) e.g., if first msg in block is 2019, and we want msg 2040, this is 2040-2019=21 \$34.35 is 0 if not looking at BLOCK 0, is 4 if looking at BLOCK 0 To account for 2 ptrs at beginning!								
[F0BA]								
34BA-	18	CLC		C8.C9 := 30.31 + #\$0106				
34BB-	A5 30	LDA	\$30	2nd half of BLOCK				
34BD-	69 06	ADC	#\$06					
34BF-	85 C8	STA	\$C8					
34C1-	A5 31	LDA	\$31					
34C3-	69 01	ADC	#\$01					
34C5-	85 C9	STA	\$C9					
34C7-	A0 FF	LDY	#\$FF	0C := last byte of 2nd BLOCK				
34C9-	B1 C8	LDA	(\$C8),Y	(# of msg GROUPS in this block)				
34CB-	85 0C	STA	\$0C					
34CD-	88	DEY						
BEGIN LOOP								
[F0CE]								
34CE-	A5 0C	LDA	\$0C					
34D0-	F0 57	BEQ	\$3529	[F129] Error return (didn't find msg)				
34D2-	C6 0C	DEC	\$0C					
34D4-	A5 2F	LDA	\$2F	Negative message number? (>32767)				
34D6-	30 51	BMI	\$3529	[F129] Yes, Error return				
34D8-	B1 C8	LDA	(\$C8),Y	# of messages in this GROUP.				
34DA-	85 0D	STA	\$0D					
34DC-	20 53 F1	JSR	\$F153	DEC C8,Y ptr				

3537-	E6 2F	INC	\$2F	Almost found the message				
3539-	A5 34	LDA	\$34	\$34.35 is now positioned at the proper "group".				
353B-	A6 2E	LDX	\$2E					
353D-	F0 0D	BEQ	\$354C	First message in GROUP the one we want? Yes, 354C				
				LOOP				
353F-	18	CLC						
3540-	71 C8	ADC	(\$C8),Y					
3542-	90 02	BCC	\$3546					
3544-	E6 35	INC	\$35					
3546-	20 53 F1	JSR	\$F153	DEC C8,Y ptr				
3549-	CA	DEX						
354A-	D0 F3	BNE	\$353F	JMP LOOP				
354C-	C6 2F	DEC	\$2F					
354E-	D0 EF	BNE	\$353F	JMP LOOP				
3550-	4C 2D F1	JMP	\$F12D	Return				

				[\$F153]				
3553-	C0 00	CPY	#\$00	DEC (C8),Y pointer				
3555-	D0 02	BNE	\$3559					
3557-	C6 C9	DEC	\$C9					
3559-	88	DEY						
355A-	60	RTS						

				To here from \$ED10 for a lot of UNITWRITE() with #\$D				
				UNITWRITE(UNIT, ARRAY, LENGTH, BLOCK#, MODE)				
				\$2D \$30.31 \$32.33 \$34.35 \$2E.2F				
				func				

				[\$F15B]				
355B-	20 7D E7	JSR	\$E77D	Check Keyboard for Input				
355E-	A9 00	LDA	#\$00					
3560-	85 F0	STA	\$F0					
3562-	A5 32	LDA	\$32	A := func				
3564-	C9 23	CMP	#\$23					
3566-	B0 0E	BCS	\$3576					
3568-	0A	ASL						
3569-	A8	TAY		*****				
356A-	AD 8B C0	LDA	\$C08B	Aux Ram, Bank 1 (\$D000.\$DFFF)				
356D-	AD 8B C0	LDA	\$C08B	Write Enabled				

3570-	20 79 F1	JSR	\$F179	Process the UNITWRITE(\$D, ..., Y, ...)				

3573-	AD 80 C0	LDA	\$C080	Back to Bank 2, no write.				

3576-	A6 F0	LDX	\$F0					
3578-	60	RTS						

				[\$F179]				
3579-	B9 81 F1	LDA	\$F181,Y					
357C-	48	PHA						
357D-	B9 80 F1	LDA	\$F180,Y					
3580-	48	PHA		\$F180 table starts here				
3581-	60	RTS						

3582-	04 F7			[01. = #\$01] \$F705 Initial ClearScreen, return KANMP04[] config				
3584-	E0 F3			[02. = #\$02] \$F3E1 DRAWSCR() and DRAWSCR2()				
3586-	64 F3			[03. = #\$03] \$F365 In KANJIREA, in loop for "S)tart game; M)ake Sc"				
3588-	27 F5			[04. = #\$04]				
3589-	C7 F5			[05. = #\$05] \$F5C8 RTS (?)				
358B-	75 F1			06. xxxxx				
358D-	75 F1			07. xxxxx				
358F-	75 F1			08. xxxxx				

35E5-	8C DB F2	STY	\$F2DB	Modify a TON of code for screen manipulation				
35E8-	8C 95 F2	STY	\$F295	\$F294..\$F306				
35EB-	8D DC F2	STA	\$F2DC					
35EE-	8D 96 F2	STA	\$F296					
35F1-	69 04	ADC	#\$04					
35F3-	8C E1 F2	STY	\$F2E1					
35F6-	8C 98 F2	STY	\$F298					
35F9-	8D E2 F2	STA	\$F2E2					
35FC-	8D 99 F2	STA	\$F299					
35FF-	69 04	ADC	#\$04					
3601-	8C E7 F2	STY	\$F2E7					
3604-	8C 9B F2	STY	\$F29B					
3607-	8D E8 F2	STA	\$F2E8					
360A-	8D 9C F2	STA	\$F29C					
360D-	69 04	ADC	#\$04					
360F-	8C ED F2	STY	\$F2ED					
3612-	8C 9E F2	STY	\$F29E					
3615-	8D EE F2	STA	\$F2EE					
3618-	8D 9F F2	STA	\$F29F					
361B-	69 04	ADC	#\$04					
361D-	8C F3 F2	STY	\$F2F3					
3620-	8C A1 F2	STY	\$F2A1					
3623-	8D F4 F2	STA	\$F2F4					
3626-	8D A2 F2	STA	\$F2A2					
3629-	69 04	ADC	#\$04					
362B-	8C F9 F2	STY	\$F2F9					
362E-	8C A4 F2	STY	\$F2A4					
3631-	8D FA F2	STA	\$F2FA					
3634-	8D A5 F2	STA	\$F2A5					
3637-	69 04	ADC	#\$04					
3639-	8C FF F2	STY	\$F2FF					
363C-	8C A7 F2	STY	\$F2A7					
363F-	8D 00 F3	STA	\$F300					
3642-	8D A8 F2	STA	\$F2A8					
3645-	69 04	ADC	#\$04					
3647-	8C 05 F3	STY	\$F305					
364A-	8C AA F2	STY	\$F2AA					
364D-	8D 06 F3	STA	\$F306					
3650-	8D AB F2	STA	\$F2AB					
3653-	60	RTS						

	[\$F254]							
				See \$F266 below				
3654-	01	Upper Left Corner Window Frame						
	02	Upper Edge Window Frame						
	03	Upper Right Corner Window Frame						
	04	Left Edge Window Frame						
	05	Right Edge Window Frame						
	06	Bottom Left Corner Window Frame						
	07	Bottom Edge Window Frame						
	08	Bottom Right Corner Window Frame						
365C-	0D							
	0A							
	0E							
	0B							
	0C							
	0E							
	9							
	0D							

				Store a "Char" to the HiRes Screen				
				\$06 = HPOS				

				\$0A = Low Byte of char				
				\$0B = High Byte of char				
				<0, 0, 01, \$20, \$32, or >0				
				\$1F = index into \$F254,Y table. Special chars				
				\$12.13 and \$16.17 correspond to Hi-Res display coordinates				
				\$12.13 = Primary TEXT screen (characters)				
				\$16.17 = Secondary TEXT screen (priorities)				
				[\$F264]				
3664-	A4 1F	LDY	\$1F	0 == special upper-left-corner char for WindowFrame (?)				
3666-	B9 54 F2	LDA	\$F254,Y	A := Special char (Window Frame)				
				[ALTERNATE ENTRY to \$F264]				
				[\$F269]				
3669-	85 0A	STA	\$0A	\$0A := Low Byte of char to display				
				[ALTERNATE ENTRY to \$F264]				
				[\$F26B]				
366B-	A5 1E	LDA	\$1E	Priority				
366D-	A4 06	LDY	\$06	Horizontal position				
366F-	D1 16	CMP	(\$16),Y	This window have higher priority than current location on screen?				
3671-	90 0E	BCC	\$3681	No, RETURN w/o displaying				
3673-	91 16	STA	(\$16),Y	Save priority (bigger is higher) in Secondary TEXT memory				
3675-	A5 0B	LDA	\$0B	A := \$0B				
3677-	F0 09	BEQ	\$3682	\$0B = 0, Yes, \$F282				
3679-	C9 32	CMP	#\$32	\$0B = 50, Yes, \$F282				
367B-	F0 05	BEQ	\$3682					
367D-	A9 FF	LDA	#\$FF	No, A := #\$FF				
367F-	D0 07	BNE	\$3688	JMP \$F288				
3681-	60	RTS						
				[\$F282]				
3682-	A5 0A	LDA	\$0A	Char to display; ...first time, value from \$F254 table				
3684-	D1 12	CMP	(\$12),Y	Compare with current TEXT screen value				
3686-	F0 F9	BEQ	\$3681	Same value, so no update needed.				
				[\$F288]				
3688-	91 12	STA	(\$12),Y	Char to display (or #\$FF) (?) Update Primary TEXT Screen				
368A-	A5 0B	LDA	\$0B					
368C-	C9 20	CMP	#\$20	\$0B = " "				
368E-	D0 1D	BNE	\$36AD [\$F2AD]	No, \$F2AD				
3690-	A9 00	LDA	#\$00	Yes, Display " " char				
3692-	A4 06	LDY	\$06	Horizontal position				
				1 Hi-Res character "block"				
				[\$F294]				
3694-	99 00 20	STA	\$2000,Y	modified				
3697-	99 00 24	STA	\$2400,Y	modified				
369A-	99 00 28	STA	\$2800,Y	modified				
369D-	99 00 2C	STA	\$2C00,Y	modified				
36A0-	99 00 30	STA	\$3000,Y	modified				
36A3-	99 00 34	STA	\$3400,Y	modified				
36A6-	99 00 38	STA	\$3800,Y	modified				
36A9-	99 00 3C	STA	\$3C00,Y	modified				
36AC-	60	RTS						

				From above, A == \$0B value				
				[\$F2AD]				
36AD-	A0 00	LDY	#\$00	Y := 0				
36AF-	AA	TAX		\$0B value				

36B0-	F0 09	BEQ	\$36BB	0?	Yes, \$F2BB				
36B2-	30 54	BMI	\$3708	<0?	Yes, \$F308				
36B4-	09 80	ORA	##\$80	+?	Yes, set high bit (this is a GRAPHIC pic)				
36B6-	E0 01	CPX	##\$01	\$0B = 1?					
36B8-	D0 07	BNE	\$36C1	No,	\$F2C1				
36BA-	C8	INY		Yes,	Y := Y + 1				
	[\$F2BB]								
36BB-	A5 0A	LDA	\$0A	Character to store = " "					
36BD-	C9 20	CMP	##\$20						
36BF-	F0 CF	BEQ	\$3690	Yes,	\$F290 to clear hi-res screen for char				
	[\$F2C1]								
36C1-	84 02	STY	\$02	\$2E.2F := PTR to "char" in 200.charset at \$D000					
36C3-	0A	ASL		#\$D0mm == 200.charset at bank1					
36C4-	26 02	ROL	\$02						
36C6-	0A	ASL		Multiply Char index by 8					
36C7-	26 02	ROL	\$02	Since 8 bytes per Char at \$D000.					
36C9-	0A	ASL							
36CA-	26 02	ROL	\$02	#\$D410 Area for MONSTER pic (##\$F0 bytes)					
36CC-	85 2E	STA	\$2E	#\$D510 Area for MONSTER pic					
36CE-	A5 02	LDA	\$02	#\$D610 Area for MONSTER pic					
36D0-	69 D0	ADC	##\$D0	#\$D710 Area for MONSTER pic					
36D2-	85 2F	STA	\$2F						
				*** \$F2D4 Alternate Entry to this Code					
36D4-	A0 00	LDY	##\$00						
36D6-	A6 06	LDX	\$06	X := HPOS					
36D8-	B1 2E	LDA	(\$2E),Y						
36DA-	9D 00 20	STA	\$2000,X	modified	\$F2DB \$2000 is Primary Hires Screen				
36DD-	C8	INY							
36DE-	B1 2E	LDA	(\$2E),Y						
36E0-	9D 00 24	STA	\$2400,X	modified					
36E3-	C8	INY							
36E4-	B1 2E	LDA	(\$2E),Y						
36E6-	9D 00 28	STA	\$2800,X	modified					
36E9-	C8	INY							
36EA-	B1 2E	LDA	(\$2E),Y						
36EC-	9D 00 2C	STA	\$2C00,X	modified					
36EF-	C8	INY							
36F0-	B1 2E	LDA	(\$2E),Y						
36F2-	9D 00 30	STA	\$3000,X	modified					
36F5-	C8	INY							
36F6-	B1 2E	LDA	(\$2E),Y						
36F8-	9D 00 34	STA	\$3400,X	modified					
36FB-	C8	INY							
36FC-	B1 2E	LDA	(\$2E),Y						
36FE-	9D 00 38	STA	\$3800,X	modified					
	[\$F301]								
3701-	C8	INY							
3702-	B1 2E	LDA	(\$2E),Y						
3704-	9D 00 3C	STA	\$3C00,X	modified					
3707-	60	RTS							
3708-	A9 7F	LDA	##\$7F						
370A-	D0 86	BNE	\$3692						
				From below at \$F365					
				While processing UNITWRITE(x, x, 3, x) (and (x, x, 3, x) (?)					
				\$30.31 == "Dest Array"					
				== MainWindow (including HEADER)					
	[\$F30C]								
370C-	A0 08	LDY	##\$08	\$18 := HPOS	Move: HPOS, VPOS, HSIZE, VSIZE,				
370E-	A2 06	LDX	##\$06	\$19 := VPOS	HCURSOR, VCURSOR, PRIORITY				
3710-	B1 30	LDA	(\$30),Y	\$1A := HSIZE	to: \$18..\$1E				

3712-	95 18	STA	\$18,X	\$1B := VSIZE				
3714-	88	DEY		\$1C := HCURSOR				
3715-	CA	DEX		\$1D := VCURSOR				
3716-	10 F8	BPL	\$3710	\$1E := PRIORITY				
3718-	38	SEC						
3719-	A5 1A	LDA	\$1A	\$0D := HSIZE - 2				
371B-	E9 02	SBC	#\$02					
371D-	85 0D	STA	\$0D					
371F-	A5 1B	LDA	\$1B	\$0C := VSIZE - 2				
3721-	E9 02	SBC	#\$02					
3723-	85 0C	STA	\$0C					
3725-	60	RTS						

Clear Secondary TEXT Screen values to 0.								
Priority values.								
[\$F326]								
3726-	A0 17	LDY	#\$17	Y := 23 (24 lines)				
3728-	84 19	STY	\$19	VPOS				
372A-	20 C6 F1	JSR	\$F1C6	Get Secondary TEXT screen ptr using VPOS				
372D-	A0 27	LDY	#\$27	Y := 39 (40 columns)				
372F-	A9 00	LDA	#\$00					
3731-	91 16	STA	(\$16),Y	Secondary TEXT Screen				
3733-	88	DEY						
3734-	10 FB	BPL	\$3731					
3736-	C6 19	DEC	\$19					
3738-	10 F0	BPL	\$372A					
373A-	60	RTS						

Display TOP (or BOTTOM) edge of WINDOW FRAME.								
From below, with								
\$0B := 0								
\$1F := 0 === Upper Left Corner								
6 === Bottom Left Corner								
\$19 == VPOS								
[\$F33B]								
373B-	20 D6 F1	JSR	\$F1D6	Get SCREEN ptrs, and Self-Modify Code!				
\$16.17 --> Secondary Text Screen								
373E-	A4 18	LDY	\$18	\$06 := HPOS				
3740-	84 06	STY	\$06					
3742-	20 64 F2	JSR	\$F264	Store "LeftUpperCorner" to the screen				
3745-	E6 1F	INC	\$1F	\$1F := 1 === "TopEdge"				
3747-	A5 0D	LDA	\$0D	HSIZE - 2 value				
3749-	F0 12	BEQ	\$375D					
374B-	85 00	STA	\$00					
374D-	A4 1F	LDY	\$1F					
374F-	B9 54 F2	LDA	\$F254,Y	Get "Edge" character (" - ")				
3752-	85 0A	STA	\$0A					
LOOP:								
3754-	E6 06	INC	\$06	HPOS := HPOS + 1				
3756-	20 6B F2	JSR	\$F26B	Store "-" to the HiRes screen				
3759-	C6 00	DEC	\$00					
375B-	D0 F7	BNE	\$3754	JMP LOOP:				
375D-	E6 1F	INC	\$1F	\$1F := 2 === Right Upper Corner				
375F-	E6 06	INC	\$06					
3761-	20 64 F2	JSR	\$F264	Store "RightUpperCorner" to the screen				
3764-	60	RTS						

Display a Window (including the Frame)								

				UNITWRITE(xxx, Mainwin.PMEM^, 3, 0);			
				and (x, x, 2, x) for DRAWSCR and DRAWSCR2			
				\$30.31 == MainWindow (with HEADER)			
				[\$F365]			
3765-	20 0C F3	JSR	\$F30C	Set up \$18..\$1E with Header info			
3768-	A5 1E	LDA	\$1E	Set \$0C to VSIZE - 2; \$0D to HSIZE - 2			
376A-	30 F8	BMI	\$3764	Priority < 0? Yes, RETURN!			
376C-	A9 00	LDA	#\$00				
376E-	85 0B	STA	\$0B	\$0B := 0			
3770-	85 1F	STA	\$1F	\$1F := 0 "LeftUpperCorner" Window Frame			
3772-	20 3B F3	JSR	\$F33B	Display Top Edge of Window Frame			
3775-	A4 1F	LDY	\$1F	\$04 := next special char (Left Edge)			
3777-	C8	INY					
3778-	B9 54 F2	LDA	\$F254,Y				
377B-	85 04	STA	\$04				
377D-	C8	INY		\$05 := next special char (Right Edge)			
377E-	B9 54 F2	LDA	\$F254,Y				
3781-	85 05	STA	\$05				
3783-	C8	INY		\$1F := point to next special char			
3784-	84 1F	STY	\$1F				
3786-	A5 0C	LDA	\$0C	\$0C (VSIZE - 2)			
3788-	F0 52	BEQ	\$37DC	Done? Yes, do bottom edge of Frame (\$F3DC)			
378A-	A0 0A	LDY	#\$0A	\$10 := #\$0A Skip over HEADER bytes to get to SCREEN DATA.			
378C-	84 10	STY	\$10				
378E-	A5 30	LDA	\$30	\$0E.0F := \$30.31 (Window w/header)			
3790-	85 0E	STA	\$0E				
3792-	A5 31	LDA	\$31				
3794-	85 0F	STA	\$0F				
				Do all rows of Window			
3796-	E6 19	INC	\$19	Vertical Row Position			
3798-	20 D6 F1	JSR	\$F1D6	Get Screen Ptrs, etc.			
379B-	A4 18	LDY	\$18	\$06 := Horizontal Postion			
379D-	84 06	STY	\$06				
379F-	A9 00	LDA	#\$00				
37A1-	85 0B	STA	\$0B				
37A3-	A5 04	LDA	\$04	Left Window Edge char			
37A5-	20 69 F2	JSR	\$F269	Store a "|" to the screen			
37A8-	A5 0D	LDA	\$0D	\$0D (HSIZE - 2)			
37AA-	F0 21	BEQ	\$37CD	Done with this row? Yes, \$F3CD			
37AC-	85 00	STA	\$00				
37AE-	A4 10	LDY	\$10	Do a single char			
37B0-	B1 0E	LDA	(\$0E),Y	\$0A := low byte of char from Window Data			
37B2-	85 0A	STA	\$0A				
37B4-	C8	INY					
37B5-	D0 02	BNE	\$37B9				
37B7-	E6 0F	INC	\$0F				
37B9-	B1 0E	LDA	(\$0E),Y	\$0B := high byte of char from Window Data			
37BB-	85 0B	STA	\$0B	**** 0B might be non-zero here! ****			
37BD-	C8	INY		And is for "graphic" chars			
37BE-	D0 02	BNE	\$37C2				
37C0-	E6 0F	INC	\$0F				
37C2-	84 10	STY	\$10				
37C4-	E6 06	INC	\$06				
37C6-	20 6B F2	JSR	\$F26B	Store a "char" to the screen			
37C9-	C6 00	DEC	\$00				
37CB-	D0 E1	BNE	\$37AE	Do a single char			
				[\$F3CD]			
37CD-	A9 00	LDA	#\$00				
37CF-	85 0B	STA	\$0B				

				A = VCursor					
				X = HCursor					
				\$0C = Vsize - 2					
				\$0D = Hsize - 2					
				Output: \$0E.0F (?)					
				[\$F420]					
				3820- 0A ASL					
				3821- 85 03 STA \$03 \$03 := 2 * VCursor					
				3823- 8A TXA A := HCursor					
				3824- 30 3A BMI \$3860 HCursor < 0? Yes, \$F460					
				3826- F0 18 BEQ \$3840 HCursor = 0? Yes, \$F440					
				3828- A6 0D LDX \$0D Hsize - 2					
				382A- E0 26 CPX #\$26 Hsize = 38? Full width of screen?					
				382C- F0 10 BEQ \$383E Yes, \$F43E					
				382E- E0 24 CPX #\$24 Hsize = 36? (Nearly full width of screen?)					
				3830- F0 0E BEQ \$3840 Yes, \$F440					
				3832- EC 26 F5 CPX \$F526 Hsize = \$F526 (?????)					
				3835- D0 2A BNE \$3861 No, \$F461 Yes.					
				3837- CD 27 F5 CMP \$F527 HCursor >= \$F527 (?????)					
				383A- B0 2C BCS \$3868 Yes, \$F468 No.					
				[\$F43C]					
				383C- 69 19 ADC #\$19 A := A + 25					
				383E- 69 17 ADC #\$17 A := A + 23 (?????)					
				[\$F440]					
				3840- AA TAX \$0E.0F := \$30.31 + F494,X . \$F4DD,X ????					
				3841- 18 CLC					
				3842- BD 94 F4 LDA \$F494,X					
				3845- 65 30 ADC \$30					
				3847- 85 0E STA \$0E					
				3849- BD DD F4 LDA \$F4DD,X					
				384C- 65 31 ADC \$31					
				384E- 85 0F STA \$0F					
				3850- A4 03 LDY \$03					
				3852- 10 0C BPL \$3860					
				3854- A0 00 LDY #\$00					
				3856- A5 0E LDA \$0E					
				3858- 65 03 ADC \$03					
				385A- 85 0E STA \$0E					
				385C- B0 02 BCS \$3860					
				385E- C6 0F DEC \$0F					
				3860- 60 RTS					

				[\$F461]					
				3861- 8E 26 F5 STX \$F526 Save Hsize - 2					
				3864- A0 01 LDY #\$01					
				3866- D0 03 BNE \$386B					
				[\$F468]					
				3868- AC 27 F5 LDY \$F527					
				386B- 85 00 STA \$00					
				386D- 8A TXA					
				386E- 0A ASL					
				386F- 85 02 STA \$02					
				3871- BE 0C F5 LDX \$F50C,Y					
				3874- B9 C3 F4 LDA \$F4C3,Y					
				3877- 18 CLC					
				3878- 65 02 ADC \$02					
				387A- 99 C4 F4 STA \$F4C4,Y					

38CE-	0A	ASL			
38CF-	0A	ASL			
38D0-	0A	ASL			
38D1-	0A	ASL			
38D2-	0A	ASL			
38D3-	0A	ASL			
38D4-	0A	ASL			
38D5-	0A	ASL			
38D6-	0A	ASL			
38D7-	0A	ASL			
38D8-	0A	ASL			
38D9-	0A	ASL			
38DA-	0A	ASL			
38DB-	0A	ASL			
38DC-	0A	ASL			
[F4DD]		High Part, paired with F494 (73 entries(?))			
38DD-	00	BRK			
38DE-	00	BRK			
38DF-	00	BRK			
38E0-	00	BRK			
38E1-	01 01	ORA (\$01,X)			
38E3-	01 02	ORA (\$02,X)			
38E5-	02	???			
38E6-	02	???			
38E7-	02	???			
38E8-	03	???			
38E9-	03	???			
38EA-	03	???			
38EB-	03	???			
38EC-	04	???			
38ED-	04	???			
38EE-	04	???			
38EF-	05 05	ORA \$05			
38F1-	05 05	ORA \$05			
38F3-	06 06	ASL \$06			
38F5-	00	BRK			
38F6-	00	BRK			
38F7-	00	BRK			
38F8-	00	BRK			
38F9-	01 01	ORA (\$01,X)			
38FB-	01 02	ORA (\$02,X)			
38FD-	02	???			
38FE-	02	???			
38FF-	03	???			
3900-	03	???			
3901-	03	???			
3902-	03	???			
3903-	04	???			
3904-	04	???			
3905-	04	???			
3906-	05 05	ORA \$05			
3908-	05 05	ORA \$05			
390A-	06 06	ASL \$06			
[F50C]					
390C-	06 00	ASL \$00			
390E-	00	BRK			
390F-	00	BRK			
3910-	00	BRK			
3911-	00	BRK			
3912-	00	BRK			
3913-	00	BRK			
3914-	00	BRK			

3954-	84 10	STY	\$10	\$10 := Window Data ptr			
3956-	38	SEC					
3957-	A5 1C	LDA	\$1C	HCursor			
3959-	65 18	ADC	\$18	H			
395B-	85 06	STA	\$06	\$06 := Horizontal Position on SCREEN			
395D-	A5 19	LDA	\$19	V			
395F-	85 22	STA	\$22	\$22 := Save V			
3961-	4C A8 F5	JMP	\$F5A8				
				Begin Loop, Do all characters in string			
				[\$F564]			
3964-	A4 10	LDY	\$10	Store 2 bytes (1 char) of STRING into			
3966-	A5 0A	LDA	\$0A	Window Data area.			
3968-	91 0E	STA	(\$0E),Y				
396A-	C8	INY					
396B-	A5 0B	LDA	\$0B				
396D-	91 0E	STA	(\$0E),Y				
396F-	C8	INY					
3970-	D0 02	BNE	\$3974				
3972-	E6 0F	INC	\$0F				
3974-	84 10	STY	\$10	\$10 := Window Data ptr for next char			
3976-	A5 1E	LDA	\$1E				
3978-	30 05	BMI	\$397F	If Priority >= 0			
397A-	20 6B F2	JSR	\$F26B	Store a "char" to the screen			
397D-	E6 06	INC	\$06	Inc Horizontal Position on Screen ptr			
397F-	A9 00	LDA	#\$00				
3981-	E6 1C	INC	\$1C	HCursor			
3983-	A6 1C	LDX	\$1C				
3985-	E4 0D	CPX	\$0D	Beyond right side of Window?			
3987-	90 27	BCC	\$39B0	No			
3989-	85 1C	STA	\$1C	Yes, try next line			
398B-	A4 18	LDY	\$18	H			
398D-	C8	INY					
398E-	84 06	STY	\$06	New line, first position			
3990-	A4 1D	LDY	\$1D	VCursor			
3992-	C8	INY					
3993-	C4 0C	CPY	\$0C	Beyond bottom of Window?			
3995-	90 0D	BCC	\$39A4	No, \$F5A4			
3997-	A8	TAY		Yes, Start Over at TOP of WINDOW Data			
3998-	A5 30	LDA	\$30	\$0E.0F := Window Buffer			
399A-	85 0E	STA	\$0E				
399C-	A5 31	LDA	\$31				
399E-	85 0F	STA	\$0F				
39A0-	A9 0A	LDA	#\$0A	Skip past HEADER bytes			
39A2-	85 10	STA	\$10	\$10 := Window Data ptr for next char			
				[\$F5A4]			
39A4-	84 1D	STY	\$1D	VCursor			
39A6-	A5 22	LDA	\$22	V			
				From above			
				[\$F5A8]			
39A8-	38	SEC					
39A9-	65 1D	ADC	\$1D	Vcursor			
39AB-	85 19	STA	\$19	Vertical Position			
39AD-	20 D6 F1	JSR	\$F1D6	Get Screen Ptrs, Self modify code, etc.			
				\$16.17 = Secondary TEXT screen == Priority values			
				\$12.13 = Primary TEXT screen = Characters			
				[\$F5B0]			
39B0-	E6 1F	INC	\$1F	\$0A := Get next char from STRING			
39B2-	A4 1F	LDY	\$1F				

39B4-	B1 20	LDA	(\$20),Y						
39B6-	85 0A	STA	\$0A						
39B8-	C6 11	DEC	\$11	Do all characters in STRING					
39BA-	10 A8	BPL	\$3964	JMP LOOP [\$F564]					
39BC-	A5 1C	LDA	\$1C	Update HCursor in Window Header					
39BE-	A0 06	LDY	#\$06						
39C0-	91 30	STA	(\$30),Y						
39C2-	A5 1D	LDA	\$1D	...and VCursor in Window HEader					
39C4-	C8	INY							
39C5-	91 30	STA	(\$30),Y						
39C7-	60	RTS							

	[\$F5C8]								
39C8-	60	RTS							

				During DRAWMAZE P010B04()					
				UNITWRITE(BASE12, P02MP08, 34, ORD(MAINWIN))					
				\$2D \$30.31 \$32.33 \$34.35 \$2E.2F					
				14 byte structure					
	[\$F5C9]								
39C9-	A0 0C	LDY	#\$0C	\$16.17 := \$30.31-->xxx.C, .D					
39CB-	B1 30	LDA	(\$30),Y						
39CD-	85 16	STA	\$16						
39CF-	C8	INY							
39D0-	B1 30	LDA	(\$30),Y						
39D2-	85 17	STA	\$17						
39D4-	A0 0A	LDY	#\$0A	\$14 := \$30.31-->xxx.A					
39D6-	B1 30	LDA	(\$30),Y	+ \$30.31-->xxx.6					
39D8-	A0 06	LDY	#\$06						
39DA-	18	CLC							
39DB-	71 30	ADC	(\$30),Y						
39DD-	85 14	STA	\$14						
39DF-	A0 08	LDY	#\$08	\$13 := \$30.31-->xxx.8					
39E1-	B1 30	LDA	(\$30),Y	+ \$30.31-->xxx.4					
39E3-	A0 04	LDY	#\$04						
39E5-	71 30	ADC	(\$30),Y						
39E7-	85 13	STA	\$13						
39E9-	85 06	STA	\$06	\$06 := \$13					
39EB-	A0 02	LDY	#\$02	\$12 := \$30.31-->xxx.2					
39ED-	B1 30	LDA	(\$30),Y						
39EF-	85 12	STA	\$12						
39F1-	A0 00	LDY	#\$00	\$11 := \$30.31-->xxx.0 (if +, else #\$0)					
39F3-	B1 30	LDA	(\$30),Y						
39F5-	10 01	BPL	\$39F8						
39F7-	98	TYA							
39F8-	85 11	STA	\$11						
39FA-	84 15	STY	\$15	\$15 := 0					
39FC-	A9 01	LDA	#\$01	\$B := 0					
39FE-	85 0B	STA	\$0B						
	[\$F600]								
3A00-	A5 34	LDA	\$34	\$30.31 := \$34.35 (MAINWIN)					
3A02-	85 30	STA	\$30						
3A04-	A5 35	LDA	\$35						
3A06-	85 31	STA	\$31						
3A08-	20 0C F3	JSR	\$F30C	JSR \$F30C					
				Set up \$18..\$1E from Window header info					
				Set \$0C to VSIZE - 2; \$0D to HSIZE - 2					

3A0B-	E6 12	INC	\$12	Set \$12 to larger of \$12 or \$0D			
3A0D-	A6 0D	LDX	\$0D				
3A0F-	E4 12	CPX	\$12				
3A11-	B0 02	BCS	\$3A15				
3A13-	86 12	STX	\$12				
3A15-	2C			NOP or			
				BEFORE LOOPA			
<\$3A16>	E6 14	BIT	\$14E6	INC \$14			
3A18-	A6 0C	LDX	\$0C	MAINWIN VSIZE - 2			
3A1A-	E4 14	CPX	\$14	Vertical			
3A1C-	30 60	BMI	\$3A7E				
3A1E-	A5 13	LDA	\$13				
3A20-	85 06	STA	\$06				
3A22-	A6 14	LDX	\$14				
3A24-	20 20 F4	JSR	\$F420	JSR \$F420			
				Calculate \$0E.0F Window Data area(?)			
3A27-	84 10	STY	\$10				
				LOOPA:			
				[\$FA29]			
3A29-	A4 15	LDY	\$15				
3A2B-	E6 15	INC	\$15				
3A2D-	B1 16	LDA	(\$16),Y				
3A2F-	F0 E5	BEQ	\$3A16	JMP \$3A16 (before LOOPA)			
3A31-	10 1C	BPL	\$3A4F	\$FA4F			
3A33-	C9 FF	CMP	#\$FF				
3A35-	F0 47	BEQ	\$3A7E	RTS			
3A37-	C9 C0	CMP	#\$C0				
3A39-	90 44	BCC	\$3A7F	\$F67F			
3A3B-	E9 C0	SBC	#\$C0				
3A3D-	AA	TAX					
3A3E-	18	CLC					
3A3F-	65 06	ADC	\$06				
3A41-	85 06	STA	\$06				
3A43-	8A	TXA					
3A44-	0A	ASL					
3A45-	65 0E	ADC	\$0E				
3A47-	85 0E	STA	\$0E				
3A49-	90 DE	BCC	\$3A29	JMP LOOPA			
3A4B-	E6 0F	INC	\$0F				
3A4D-	B0 DA	BCS	\$3A29	JMP LOOPA			
				[\$FA4F]			
3A4F-	AA	TAX					
3A50-	C8	INY					
3A51-	B1 16	LDA	(\$16),Y				
3A53-	85 0A	STA	\$0A				
3A55-	E6 15	INC	\$15				
3A57-	A4 10	LDY	\$10				
				LOOPB:			
3A59-	A5 06	LDA	\$06				
3A5B-	C5 11	CMP	\$11				
3A5D-	90 0E	BCC	\$3A6D				
3A5F-	C5 12	CMP	\$12				
3A61-	B0 0A	BCS	\$3A6D				
3A63-	A5 0A	LDA	\$0A				
3A65-	91 0E	STA	(\$0E),Y				
3A67-	C8	INY					
3A68-	A5 0B	LDA	\$0B				
3A6A-	91 0E	STA	(\$0E),Y				

3ABE-	20 D6 F1	JSR	\$F1D6	Self-modify Hi-Res code (\$F294 code)			
				Return 12.13 Primary TEXT ptr			
				Return 16.17 Secondary TEXT ptr			
3AC1-	A4 06	LDY	\$06	Y := Horizontal Position			
3AC3-	A6 1A	LDX	\$1A				
3AC5-	A9 00	LDA	#\$00	A := #\$00			
				Do next character on this line			
3AC7-	91 16	STA	(\$16),Y	" " to Secondary TEXT screen			
3AC9-	91 12	STA	(\$12),Y	" " to Primary TEXT screen			
3ACB-	20 94 F2	JSR	\$F294	" " to Hi-Res (1 "block")			
3ACE-	C8	INY					
3ACF-	CA	DEX					
3AD0-	D0 F5	BNE	\$3AC7	Do next character on this line			
3AD2-	E6 19	INC	\$19	VPOS := VPOS + 1			
3AD4-	C6 1B	DEC	\$1B				
3AD6-	D0 E6	BNE	\$3ABE	Do all lines on screen			
3AD8-	60	RTS					
				Processing '200.CHARSET'			
				from pascal code P01060C()			
3AD9-	A9 04	LDA	#\$04	\$2D := S6D1 disk drive			
3ADB-	85 2D	STA	\$2D				
3ADD-	A9 D0	LDA	#\$D0	\$30.31 := destination #\$D000 Bank 1			
3ADF-	85 31	STA	\$31				
3AE1-	A9 10	LDA	#\$10	\$32.33 := length (#\$10 = 16 Sectors? or Blocks?)			
3AE3-	85 33	STA	\$33				
3AE5-	A2 00	LDX	#\$00	X := 0 == Read function			
3AE7-	86 30	STX	\$30				
3AE9-	86 32	STX	\$32				
3AEB-	20 5C E8	JSR	\$E85C	Read Blocks			
3AEE-	A9 FF	LDA	#\$FF	\$F1 := #\$FF Special \$F1 flag			
3AF0-	85 F1	STA	\$F1				
3AF2-	60	RTS					
				Processing "200.MONSTERS"			
3AF3-	A5 34	LDA	\$34	\$66.67 := 200.MONSTERS FIRSTBLOCK			
3AF5-	85 66	STA	\$66				
3AF7-	A5 35	LDA	\$35				
3AF9-	85 67	STA	\$67				
3AFB-	A9 00	LDA	#\$00	Clear \$74 MONSTERS table (4 entries)			
3AFD-	A2 03	LDX	#\$03				
3AFF-	95 74	STA	\$74,X				
3B01-	CA	DEX					
3B02-	10 FB	BPL	\$3AFF				
3B04-	60	RTS					
				UNITWRITE(UNIT, ARRAY, LENGTH, BLOCK#, MODE)			
				\$2D \$30.31 \$32.33 \$34.35 \$2E.2F			
				UNITWRITE(\$D, 0, 1, 0)			
				Clears screens and RETURN KANMP04[] config bits			
				\$F1 is set non-zero here.			
				\$E6 set to #\$FF (?)			
				[\$F705]			
3B05-	A5 F1	LDA	\$F1	\$F1 = 0 only on first call to \$F705; See \$F715.			
3B07-	D0 21	BNE	\$3B2A	(After 200.CHARSET is loaded, \$F1:=#\$FF)			

3B09-	A9 31	LDA	#\$31	This code executed only ONCE for WizIV			
3B0B-	A0 00	LDY	#\$00	KANMP04[0] = TRUE ==ASCII.KRN			
3B0D-	91 30	STA	(\$30),Y	KANMP04[1] = FALSE ==KANA			
3B0F-	98	TYA		KANMP04[2] = FALSE ==KANJI			
3B10-	C8	INY		KANMP04[3] = FALSE ==?			
3B11-	91 30	STA	(\$30),Y	KANMP04[4] = TRUE ==200.CHARSET			
3B13-	A9 80	LDA	#\$80	KANMP04[5] = TRUE ==200.MONSTERS			
3B15-	85 F1	STA	\$F1	\$F1 := #\$80; Don't execute this code again!			
3B17-	20 B0 F6	JSR	\$F6B0	Clear Screens (Primary & Secondary Text; Primary HiRes)			
3B1A-	8D 54 C0	STA	\$C054	Primary			
3B1D-	8D 57 C0	STA	\$C057	HiRes			
3B20-	8D 52 C0	STA	\$C052	No Mixed			
3B23-	8D 50 C0	STA	\$C050	Graphics			
3B26-	A9 FF	LDA	#\$FF				
3B28-	85 E6	STA	\$E6	Special flag			
3B2A-	60	RTS		Return			

3B2B-	A5 F1	LDA	\$F1	\$F1 flag			
3B2D-	F0 0B	BEQ	\$3B3A				
3B2F-	AD 51 C0	LDA	\$C051				
3B32-	A9 00	LDA	#\$00				
3B34-	85 F1	STA	\$F1				
3B36-	85 34	STA	\$34				
3B38-	85 E6	STA	\$E6	special flag			
3B3A-	60	RTS					

				MP02 := 0;			
				UNITWRITE(BASE12, MP02, 23, MP02)			
				UNITWRITE(UNIT, ARRAY, LENGTH, BLOCK#, MODE)			
				\$2D \$30.31 \$32.33 \$34.35 \$2E.2F			
				Func=23 MP02=0			
				At end of SOLICSM()			
				[\$F73B]			
3B3B-	A5 34	LDA	\$34	MP02 = 0?			
3B3D-	05 35	ORA	\$35				
3B3F-	F0 4A	BEQ	\$3B8B	Yes, F78B Clear top 6 lines of screen (e.g., the Credits at boot up)			
3B41-	A9 60	LDA	#\$60				
3B43-	85 32	STA	\$32				
3B45-	A9 06	LDA	#\$06				
3B47-	85 33	STA	\$33				
3B49-	A5 B4	LDA	\$B4				
3B4B-	85 30	STA	\$30				
3B4D-	85 2E	STA	\$2E				
3B4F-	A5 B5	LDA	\$B5				
3B51-	85 31	STA	\$31				
3B53-	85 2F	STA	\$2F				
3B55-	20 EE F8	JSR	\$F8EE	Disk Read I/O			
3B58-	A0 00	LDY	#\$00				
3B5A-	84 3C	STY	\$3C				
3B5C-	A9 06	LDA	#\$06				
3B5E-	85 1B	STA	\$1B				
3B60-	A9 02	LDA	#\$02				
3B62-	85 19	STA	\$19				
				Outerloop:			
3B64-	20 D6 F1	JSR	\$F1D6	Get SCREEN ptrs, and Self-Modify Code! \$16.17 --> Secondary Text Screen			

	3B67-	18	CLC						
	3B68-	A9 03	LDA	#\$03					
	3B6A-	85 06	STA	\$06					
	3B6C-	A2 22	LDX	#\$22					
	3B6E-	86 00	STX	\$00					
			Loop:						
	3B70-	20 D4 F2	JSR	\$F2D4					
	3B73-	E6 06	INC	\$06					
	3B75-	A9 08	LDA	#\$08					
	3B77-	65 2E	ADC	\$2E					
	3B79-	85 2E	STA	\$2E					
	3B7B-	90 03	BCC	\$3B80					
	3B7D-	E6 2F	INC	\$2F					
	3B7F-	18	CLC						
	3B80-	C6 00	DEC	\$00					
	3B82-	D0 EC	BNE	\$3B70					
	3B84-	E6 19	INC	\$19					
	3B86-	C6 1B	DEC	\$1B					
	3B88-	D0 DA	BNE	\$3B64					
	3B8A-	60	RTS		RTS				

	3B8B-	A2 02	LDX	#\$02	\$19 := #\$02	VPOS			
	3B8D-	86 19	STX	\$19					
	3B8F-	E8	INX		\$06 := #\$03	HPOS			
	3B90-	86 06	STX	\$06					
	3B92-	A9 06	LDA	#\$06	\$1B := #\$06	6 lines			
	3B94-	85 1B	STA	\$1B					
	3B96-	A9 22	LDA	#\$22	\$1A := #\$22	34 columns			
	3B98-	85 1A	STA	\$1A					
	3B9A-	4C BE F6	JMP	\$F6BE	Clear Screen				

			Table for MONSTER PICs						
			Horizontal displacement in MAINWIN to display 4						
			ENEMY PICs.						
			If 4 displayed then:						
			00 = 00. (since 2 bytes per displayed "char"						
			14 = 10. divide by 2)						
			28 = 20.						
			3C = 30.						
			If 3 displayed then:						
			08 = 04.						
			1C = 14.						
			30 = 24.						
			If 2 displayed then:						
			14 = 10.						
			28 = 20.						
			If 1 displayed then:						
			1C = 14.						
			Displacements are from left edge of MAINWIN.						
			[\$F79D]						
	3B9D-	3C 30							
		28 1C							
		14 08							
		0							
			[\$F7A4]						
		02	This leads to #\$D410 where a MONSTER PIC has been read						

	22			This leads to #D510 ditto				
	42			This leads to #D610 ditto				
	62			This leads to #D710 ditto				

				[\$F7A8]				
3BA8-	18		CLC	First time, \$78.79 === 00 00,				
3BA9-	A9 93		LDA #93	\$0E.0F := \$78.79 + #293				
3BAB-	65 78		ADC \$78					
3BAD-	85 0E		STA \$0E					
3BAF-	A9 02		LDA #02					
3BB1-	65 79		ADC \$79					
3BB3-	85 0F		STA \$0F					
3BB5-	60		RTS					

				UNITWRITE(\$D, xx, 17, 0) From KANJIREA				
				[\$F7B6]				
3BB6-	20 A8 F7		JSR \$F7A8	Set every other byte from #293 to \$3F9 to #1.				
3BB9-	E6 0F		INC \$0F	?????? Gross Bug !!!!				
3BBB-	A9 01		LDA #01	\$78.79 should be WINDOW BUFFER				
3BBD-	A2 01		LDX #01	with HEADER.				
3BBF-	A0 66		LDY #66	See for example the code at \$F7CF				
3BC1-	91 0E		STA (\$0E),Y					
3BC3-	88		DEY					
3BC4-	88		DEY					
3BC5-	D0 FA		BNE \$3BC1					
3BC7-	91 0E		STA (\$0E),Y					
3BC9-	C6 0F		DEC \$0F					
3BCB-	CA		DEX					
3BCC-	10 F3		BPL \$3BC1					
3BCE-	60		RTS					

				UNITWRITE(BASE12, KANMP02, 13, MAINWIN.I);				
				13 \$30.31 13, \$34.35				
				Display 1 to 4 MONSTER PICS on MAINWIN				
				-or-				
				Display 1 dead WERDNA (41, 42, 43, 44)				
				-or-				
				Display 1 Ghost of ROBERT (45, 46, 47, 48)				
				-or-				
				Display anything else from 200.MONSTERS (?)				
				From P01060E()				
				After solicit "S)tart Game"				
				and after random ENEMY PIC #s chosen.				
				KANMP02[0], [1], [2], [3] contains random numbers				
				from 1 to 24 (or -1). Could be only 1 with non neg.				
				[\$F7CF]				
3BCF-	A5 34		LDA \$34	\$78.79 := MAINWIN				
3BD1-	85 78		STA \$78					
3BD3-	A5 35		LDA \$35					
3BD5-	85 79		STA \$79					
3BD7-	20 B6 F7		JSR \$F7B6	JSR \$F7B6 set high order bytes in MAINWIN				
				to #1 where ENEMY PICS appear. 5 rows				

3BDA-	A2 03	LDX	#\$03	Init \$68, \$6C, \$70 tables (4 entries per)				
3BDC-	A9 FF	LDA	#\$FF	Init to #\$FF				
3BDE-	95 6C	STA	\$6C,X					
3BE0-	95 70	STA	\$70,X					
3BE2-	95 68	STA	\$68,X					
3BE4-	CA	DEX						
3BE5-	10 F7	BPL	\$3BDE					

				Set up DISPLACEMENTS (to pic 0, 1, 2, 3) on screen.				
				Use \$F79D table to set up \$70,X (0..3) table.				
				Displacements from Left Edge of MAINWIN				
				to display ENEMY PIC.				
				There are 1 to 4 pics CENTER displayed.				
3BE7-	A2 00	LDX	#\$00	Process up to 4 ENEMY PICs				
3BE9-	A0 03	LDY	#\$03					
3BEB-	B1 30	LDA	(\$30),Y	Get KANMP02[Y] value (ENEMY index, 1..24)				
3BED-	30 07	BMI	\$3BF6	-1 means no pic				
3BEF-	BD 9D F7	LDA	\$F79D,X					
3BF2-	99 70 00	STA	\$0070,Y					
3BF5-	E8	INX						
3BF6-	E8	INX						
3BF7-	88	DEY						
3BF8-	10 F1	BPL	\$3BEB	Process next KANMP02[Y] value				

3BFA-	A0 03	LDY	#\$03					
				\$F7FC: To Here From Next Section too.				
				To see if the one we just inserted				
				already exists in the list.				
				See if any in new list of ENEMY pics are				
				same as previously displayed.				
				If YES, then we can skip some I/O.				
				If NO, this is a giant NOP.				
				[\$F7FC]				
3BFC-	B1 30	LDA	(\$30),Y	Get KANMP02[Y] (ENEMY index, 1..24)				
3BFE-	30 1B	BMI	\$3C1B					
				[\$F800]				
3C00-	A2 03	LDX	#\$03					
				MONSTER INDEX TABLE				
				(\$74,0; \$74,1; \$74,2) all set to 0 in				
				PROCESSING MONSTERS.				
3C02-	D5 74	CMP	\$74,X	KANMP02[Y] ENEMY INDEX already in MONSTER INDEX TABLE?				
3C04-	D0 12	BNE	\$3C18	No. Different enemy # in KANMP02[Y] as \$74,X				
3C06-	B5 68	LDA	\$68,X	Yes. Same enemy # in KANMP02[Y] as \$74,X				
3C08-	10 04	BPL	\$3C0E					
3C0A-	A9 01	LDA	#\$01	Indicate enemy index is there,				
3C0C-	95 68	STA	\$68,X	and no I/O needed				
				Set up \$68,X table				
3C0E-	8A	TXA						
3C0F-	99 6C 00	STA	\$006C,Y	...and \$6C,Y table				
3C12-	A9 FF	LDA	#\$FF					
3C14-	91 30	STA	(\$30),Y	...and clear the input from P01060E()				
3C16-	D0 03	BNE	\$3C1B					
3C18-	CA	DEX						
3C19-	10 E7	BPL	\$3C02	Advance to next \$74,X to compare with KANMP02[]				
3C1B-	88	DEY						
3C1C-	10 DE	BPL	\$3BFC	Process up to 4 entries				

...first time, above here, we do not set anything				
in \$68,x table or \$6C,Y table.				
3C1E-	A0 03	LDY	#\$03	Process up to 4 entries
3C20-	B1 30	LDA	(\$30),Y	
3C22-	30 20	BMI	\$3C44	-1 means no enemy pic
3C24-	85 11	STA	\$11	Found one in list. Save it at \$11
3C26-	A2 03	LDX	#\$03	
3C28-	B5 68	LDA	\$68,X	Look for "empty" entry in \$68,X table.
3C2A-	10 15	BPL	\$3C41	
3C2C-	A9 00	LDA	#\$00	Found an available entry.
3C2E-	95 68	STA	\$68,X	\$68,X := 0 (indicate this enemy # there.)
3C30-	A9 FF	LDA	#\$FF	(and need to do I/O)
3C32-	91 30	STA	(\$30),Y	...and clear input from P01060E()
3C34-	A5 11	LDA	\$11	
3C36-	95 74	STA	\$74,X	...and save the enemy # in \$74 table.
3C38-	8A	TXA		
3C39-	99 6C 00	STA	\$006C,Y	Save index into \$74 table in the \$6C table
3C3C-	88	DEY		
3C3D-	10 BD	BPL	\$3BFC	[\$F7FC] Back to previous loop (? ok ?)
3C3F-	30 06	BMI	\$3C47	(...first time, not back)
3C41-	CA	DEX		
3C42-	10 E4	BPL	\$3C28	
3C44-	88	DEY		
3C45-	10 D9	BPL	\$3C20	Process up to 4 entries

3C47-	A2 03	LDX	#\$03	Process up to 4 PICs
3C49-	86 7A	STX	\$7A	
[\$F84B]				
3C4B-	A6 7A	LDX	\$7A	
3C4D-	B4 6C	LDY	\$6C,X	Entry have enemy #?
3C4F-	30 05	BMI	\$3C56	No, \$F856 (JMP \$F8B8 and to \$F8E6 to DEC \$7A)
3C51-	B9 68 00	LDA	\$0068,Y	\$68,Y = 0?
3C54-	F0 03	BEQ	\$3C59	Yes, \$F859
No, (-1 or +1) JMP \$F8B8				
3C56-	4C B8 F8	JMP	\$F8B8	SKIP DOING THE I/O. It is not needed

[\$F859]				
3C59-	B9 74 00	LDA	\$0074,Y	A := enemy index (1..24) (1..120!!!)
3C5C-	38	SEC		\$34.35 := \$66.67 + (index - 1) DIV 2
3C5D-	E9 01	SBC	#\$01	A := Make index relative to 0
3C5F-	4A	LSR		A := A / 2
3C60-	08	PHP		Save least bit of index (0 = 0, 1 = 1, 2 = 0, 3 = 1..)
3C61-	18	CLC		
3C62-	65 66	ADC	\$66	\$66.67 is FIRSTBLK of 200.MONSTERS
3C64-	85 34	STA	\$34	
3C66-	A9 00	LDA	#\$00	
3C68-	65 67	ADC	\$67	
3C6A-	85 35	STA	\$35	\$34.35 is now BLOCK address in 200.MONSTERS for this monster
3C6C-	A9 02	LDA	#\$02	\$30.31 := \$0200 === I/O buffer
3C6E-	85 31	STA	\$31	
3C70-	A9 00	LDA	#\$00	
3C72-	85 30	STA	\$30	

3C74-	28	PLP							
3C75-	08	PHP		Resave least bit of index (Sector 0 or Sector 1)					
3C76-	A9 00	LDA	#\$00						
3C78-	2A	ROL							
3C79-	85 33	STA	\$33	\$33 := 0 or 1 (Sector 0 or Sector 1)					
3C7B-	A9 F0	LDA	#\$F0	\$32.33 := Length of I/O					
3C7D-	85 32	STA	\$32						
3C7F-	A9 04	LDA	#\$04	Device := 4 (S6, D1)					
3C81-	85 2D	STA	\$2D						
3C83-	A2 00	LDX	#\$00	X := 0 == Read function					
3C85-	AD 80 C0	LDA	\$/C080	Bank 2, No Write					

3C88-	20 5C E8	JSR	\$/E85C	JSR \$/E85C Read 200.MONSTER [index]					

3C8B-	AD 8B C0	LDA	\$/C08B	RamCard Ram, Bank 1 (\$/D000..\$/DFFF)					
3C8E-	AD 8B C0	LDA	\$/C08B	Write Enabled					
3C91-	A6 7A	LDX	\$/7A	\$/CA.CB := \$/D010 + (#000001xx 00000000)					
3C93-	B5 6C	LDA	\$/6C,X	xx is 0 1 2 3					
3C95-	09 04	ORA	\$/04	(index into \$/68 and \$/74)					
3C97-	18	CLC		\$/D410					
3C98-	69 D0	ADC	\$/D0	\$/D510					
3C9A-	85 CB	STA	\$/CB	\$/D610					
3C9C-	A9 10	LDA	\$/10	\$/D710 ...first time					
3C9E-	85 CA	STA	\$/CA						
3CA0-	A9 02	LDA	\$/02	\$/C8.C9 := Address in I/O buffer (\$/200 or \$/300) to					
3CA2-	28	PLP		Sector 0 or Sector 1 for MONSTER					
3CA3-	69 00	ADC	\$/00						
3CA5-	85 C9	STA	\$/C9						
3CA7-	A9 00	LDA	\$/00						
3CA9-	85 C8	STA	\$/C8						
3CAB-	A0 EF	LDY	\$/EF	XFER from \$/C8 to \$/CA buffer (\$/F0 bytes for MONSTER)					
3CAD-	B1 C8	LDA	(\$/C8),Y						
3CAF-	91 CA	STA	(\$/CA),Y						
3CB1-	88	DEY							
3CB2-	D0 F9	BNE	\$/3CAD						
3CB4-	B1 C8	LDA	(\$/C8),Y						
3CB6-	91 CA	STA	(\$/CA),Y						

				[\$/F8B8]					
3CB8-	B4 6C	LDY	\$/6C,X	Y := index into \$/68 and \$/74 tables					
3CBA-	30 2A	BMI	\$/3CE6	(-1, 0, 1, 2, 3)					
3CBC-	20 A8 F7	JSR	\$/F7A8	JSR \$/F7A8 \$/E.0F := \$/78.79 + #\$/293					
3CBF-	B9 A4 F7	LDA	\$/F7A4,Y	\$/F7A4 table (\$/02, \$/22, \$/42, \$/62)					
3CC2-	B4 70	LDY	\$/70,X	Offset to area 0, 1, 2, 3 on screen for PIC					
3CC4-	A2 05	LDX	\$/05	5 x 6 "chars" to screen for MONSTER picture (?)					
3CC6-	86 10	STX	\$/10						
3CC8-	A2 06	LDX	\$/06						
3CCA-	91 0E	STA	(\$/0E),Y	Do 1 horizontal row					
3CCC-	C8	INY							
3CCD-	C8	INY							
3CCE-	D0 02	BNE	\$/3CD2						
3CD0-	E6 0F	INC	\$/0F						
3CD2-	69 01	ADC	\$/01						
3CD4-	CA	DEX							
3CD5-	D0 F3	BNE	\$/3CCA	Do 1 horizontal row (6 "char"s)					

3CD7-	48	PHA		Advance to next row in MAINWIN			
3CD8-	98	TYA					
3CD9-	69 3C	ADC	#\$3C	add #\$3C == 60. (60 + 2*6 stores already = 72 =			
3CDB-	A8	TAY		# of bytes for 1 row in this window)			
3CDC-	90 03	BCC	\$3CE1				
3CDE-	E6 0F	INC	\$0F				
3CE0-	18	CLC					
3CE1-	68	PLA					
3CE2-	C6 10	DEC	\$10				
3CE4-	D0 E2	BNE	\$3CC8	5 x 6 "char"s to screen			
3CE6-	C6 7A	DEC	\$7A	Process up to 4 PICs			
3CE8-	30 03	BMI	\$3CED	All done, \$F8ED			
3CEA-	4C 4B F8	JMP	\$F84B				
[F8ED]							
3CED-	60	RTS					

				\$2D = Device			
				X = Function			
				0 = Read			
				1 = Write			
				\$F2 = "Virtual Disk" flag			
				\$2F = ? flag with upper 2 bits (BPL and BVC)			
				\$50 = ?			
				Determine which code to execute:			
				\$E7FE Normal Disk I/O (?)			
				\$F90B Virtual Disk I/O (?)			
				\$FAAE No I/O but convert disk addr (?)			
				\$F9DE Scan all Disks and init Disk IDs table (?)			
[F8EE]							
3CEE-	A5 2D	LDA	\$2D	Device = 4? (S6D1)			
3CF0-	C9 04	CMP	#\$04				
3CF2-	D0 10	BNE	\$3D04	No, \$E7FE			
3CF4-	E0 02	CPX	#\$02	Yes.			
3CF6-	90 0F	BCC	\$3D07	Read? or Write? Yes, \$F907			
3CF8-	24 2F	BIT	\$2F				
3CFA-	10 08	BPL	\$3D04	\$2F Positive? Yes, \$E7FE (Read Blocks)			
3CFC-	50 03	BVC	\$3D01	\$2F Carry set? No, \$F9DE 2nd UNITWRITE, #D and BASE.09=1			
3CFE-	4C AE FA	JMP	\$FAAE	Yes, \$FAAE			
3D01-	4C DE F9	JMP	\$F9DE	2nd UNITWRITE, #D and BASE.09=1			
3D04-	4C FE E7	JMP	\$E7FE	\$E7FE Read Blocks			
[F907]							
3D07-	24 F2	BIT	\$F2	"Virtual Disk" flag			
3D09-	10 F9	BPL	\$3D04	Not virtual, \$F904 -> \$E7FE			

				Virtual Disk I/O using SYSTEM.RELOC			
[F90B]							
3D0B-	86 51	STX	\$51	Here processing CXP C,1			
3D0D-	A5 34	LDA	\$34	Loading Segment KANJIREA			
3D0F-	85 56	STA	\$56				
3D11-	A5 35	LDA	\$35	\$51 := X (0 coming from \$DE37 code)			
3D13-	85 57	STA	\$57	\$52 := \$30 Destination for I/O			
3D15-	A5 32	LDA	\$32	\$53 := \$31			
3D17-	85 54	STA	\$54	\$54 := \$32 Length (in Bytes)			
3D19-	A5 33	LDA	\$33	\$55 := \$33			

3D7A-	85 31	STA	\$31						
3D7C-	A5 5A	LDA	\$5A						
3D7E-	85 34	STA	\$34						
3D80-	A5 5B	LDA	\$5B						
3D82-	85 35	STA	\$35						
3D84-	20 FE E7	JSR	\$E7FE	READ BLOCKS					
3D87-	38	SEC							
3D88-	A5 54	LDA	\$54						
3D8A-	E5 58	SBC	\$58						
3D8C-	85 54	STA	\$54						
3D8E-	A5 55	LDA	\$55						
3D90-	E5 59	SBC	\$59						
3D92-	85 55	STA	\$55						
3D94-	05 54	ORA	\$54						
3D96-	F0 15	BEQ	\$3DAD						
3D98-	18	CLC							
3D99-	A5 53	LDA	\$53						
3D9B-	65 59	ADC	\$59						
3D9D-	85 53	STA	\$53						
3D9F-	A5 59	LDA	\$59						
3DA1-	4A	LSR							
3DA2-	65 56	ADC	\$56						
3DA4-	85 56	STA	\$56						
3DA6-	90 02	BCC	\$3DAA						
3DA8-	E6 57	INC	\$57						
3DAA-	4C 25 F9	JMP	\$F925	JMP \$F925					
3DAD-	60	RTS							

[\$F9AE]									
3DAE-	A9 80	LDA	#\$80	2F := #\$80					
3DB0-	85 2F	STA	\$2F						
3DB2-	A9 02	LDA	#\$02	30.31 := #\$200	Destination (\$200..\$3FF)				
3DB4-	85 31	STA	\$31						
3DB6-	A2 02	LDX	#\$02						
3DB8-	86 33	STX	\$33	32.33 := #\$200	Length (1 Block = \$200 bytes)				
3DBA-	CA	DEX							
3DBB-	86 34	STX	\$34	34.35 := #\$0001	Block # to read				
3DBD-	CA	DEX		X := #\$0	(Read ?)				
3DBE-	86 32	STX	\$32						
3DC0-	86 35	STX	\$35						
3DC2-	86 30	STX	\$30						
3DC4-	A5 5C	LDA	\$5C		Drive (e.g., 4 = S6D1)				
3DC6-	85 2D	STA	\$2D	2D := Drive					
3DC8-	20 FE E7	JSR	\$E7FE	Read Blocks					
3DCB-	8A	TXA							
3DCC-	D0 0D	BNE	\$3DDB						
3DCE-	A0 FE	LDY	#\$FE	A := #\$FE					
3DD0-	A9 03	LDA	#\$03	00.01 := #\$300					
3DD2-	85 01	STA	\$01						
3DD4-	A9 00	LDA	#\$00						
3DD6-	85 00	STA	\$00						
3DD8-	B1 00	LDA	(\$00),Y	A := \$3FE value	Disk# e.g., 1, 2, 3, 4, 5				
3DDA-	60	RTS		Return					
3DDB-	A9 00	LDA	#\$00	A := 0					
3DDD-	60	RTS		Return					

from \$F901, processing Param2 := #\$01									
at WRITE VOL# UNITWRITE(#\$D...)									

				Set up \$5D..\$65 table with Disk IDs			
				(1, 2, 3, 4, 5) from end of BLOCK #1 on disks.			
				\$5D is for Device 4			
				[\$F9DE]			
3DDE-	A2 09	LDX	#\$09	Init zpage locs \$5D..\$65 to #\$\$\$			
3DE0-	A9 FF	LDA	\$\$\$				
3DE2-	95 5C	STA	\$5C,X				
3DE4-	CA	DEX					
3DE5-	D0 FB	BNE	\$3DE2				
3DE7-	A2 0C	LDX	#\$0C	Check 12, 11, 10, 9			
				...then 5, 4 for valid drives			
3DE9-	86 5C	STX	\$5C				
3DEB-	BD 63 FC	LDA	\$FC63,X	Slot# * 16 for this Pascal Device (4=S6D1)			
3DEE-	30 07	BMI	\$3DF7				
				[\$F9F0]			
3DF0-	20 AE F9	JSR	\$F9AE	Found one! \$F9AE			
3DF3-	A6 5C	LDX	\$5C				
3DF5-	95 59	STA	\$59,X				
3DF7-	CA	DEX					
3DF8-	E0 08	CPX	#\$08				
3DFA-	D0 02	BNE	\$3DFE				
3DFC-	A2 05	LDX	#\$05				
3DFE-	E0 04	CPX	#\$04				
3E00-	B0 E7	BCS	\$3DE9				
3E02-	60	RTS					

				[\$FA03]			
3E03-	A2 0C	LDX	#\$0C				
3E05-	D5 59	CMP	\$59,X				
3E07-	F0 08	BEQ	\$3E11				
3E09-	CA	DEX					
3E0A-	E0 04	CPX	#\$04				
3E0C-	B0 F7	BCS	\$3E05				
3E0E-	A9 00	LDA	\$\$\$				
3E10-	60	RTS					
3E11-	A9 01	LDA	#\$01				
3E13-	60	RTS					

				Convert "virtual" disk# to physical disk#			
				SYSTEM.RELOC has this format:			
				00.01: 0002			
				02.xx:			
				Each disk represented by 2 words,			
				followed by list of 3 word entries			
				02.03: Disk# (1,2,3,4,5)			
				04.05: # of Segments this Disk#			
				06.yy:			
				Each segment represented by 3 words			
				06.07: Virtual Block#			
				08.09: Physical Block#			
				0A.0B: Length(in Blocks)			
				\$50 := #\$01 (?) or #\$00 (?)			
				\$51 := X (Sometimes 0, other times 4?)			
				\$52 := \$30 Destination for I/O to load Segment into			
				\$53 := \$31			
				\$54 := \$32 Length of I/O in Bytes			
				\$55 := \$33			
				\$56 := \$34 Disk Block Addr (#\$85 for KANJIREA)			
				\$57 := \$35 (From Directory +			
				SYSTEM.PASCAL FirstBlock)			

3E6C-	D0 DB	BNE	\$3E49	[\$FA49]	LOOP				
3E6E-	C6 03	DEC	\$03		Decrement Segment Counter (high)				
3E70-	10 D7	BPL	\$3E49	[\$FA49]	LOOP				
3E72-	30 A8	BMI	\$3E1C	[\$FA1C]	Not found on that disk, BRANCH always				
					LOOPB advances \$00.01 to				
					next disk entry in RELOC table				
	[\$FA74]								
3E74-	A9 06	LDA	#\$06		Advance \$00.01 to next				
3E76-	18	CLC			Segment entry in RELOC table				
3E77-	65 00	ADC	\$00		(or to next disk section)				
3E79-	85 00	STA	\$00						
3E7B-	90 02	BCC	\$3E7F						
3E7D-	E6 01	INC	\$01						
3E7F-	C6 02	DEC	\$02		Decrement Segment Counter				
3E81-	D0 F1	BNE	\$3E74						
3E83-	C6 03	DEC	\$03		Decrement Segment Counter				
3E85-	10 ED	BPL	\$3E74		LOOPB				
3E87-	4C 1C FA	JMP	\$FA1C		\$00.01 point to next disk entry				
					Try to find it on next disk				
3E8A-	38	SEC							
3E8B-	60	RTS							
					By definition, word 1 is always				
					greater than word 3 above it,				
					and always less than word 3 for				
					this entry.				
					Word 3 > \$56.57 (Match!?)				
	[\$FA8C]								
3E8C-	A0 00	LDY	#\$00		Let's see if it really matches				
3E8E-	38	SEC							
3E8F-	A5 56	LDA	\$56		\$5A.5B := \$56.57 - word 1				
3E91-	F1 00	SBC	(\$00),Y						
3E93-	85 5A	STA	\$5A						
3E95-	C8	INY							
3E96-	A5 57	LDA	\$57						
3E98-	F1 00	SBC	(\$00),Y						
3E9A-	85 5B	STA	\$5B						
3E9C-	90 D6	BCC	\$3E74		Not found on this disk, try next one				
					Found Segment entry on this disk!!!				
3E9E-	C8	INY			Point to word 2 in RELOC table				
3E9F-	18	CLC							
3EA0-	B1 00	LDA	(\$00),Y		If the Disk ADDR we are looking for				
3EA2-	65 5A	ADC	\$5A		is >= word 1 entry and less than				
3EA4-	85 5A	STA	\$5A		word 3 entry, then \$5A.5B holds				
3EA6-	C8	INY			the difference. Add that difference				
3EA7-	B1 00	LDA	(\$00),Y		to word 2 to get the REAL DISK ADDR.				
3EA9-	65 5B	ADC	\$5B		Note, if diff = 0, then this is				
3EAB-	85 5B	STA	\$5B		simply word 2.				
3EAD-	60	RTS							
	[\$FAAE]								
3EAE-	A5 34	LDA	\$34						
3EB0-	85 56	STA	\$56						
3EB2-	A5 35	LDA	\$35						
3EB4-	85 57	STA	\$57						
3EB6-	20 14 FA	JSR	\$FA14		Convert from "Virtual" Disk Addr to Physical				
3EB9-	A0 00	LDY	#\$00						
3EBB-	90 02	BCC	\$3EBF						
3EBD-	84 EF	STY	\$EF						

3EBF-	A5 EF	LDA	\$EF	Return disk#	(1, 2, 3, 4, 5)			
3EC1-	91 30	STA	(\$30),Y					
3EC3-	98	TYA						
3EC4-	C8	INY						
3EC5-	91 30	STA	(\$30),Y					
3EC7-	60	RTS						

[\$FAC8]								
3EC8-	A0 04	LDY	#\$04					
3ECA-	86 04	STX	\$04					
3ECC-	85 05	STA	\$05					
3ECE-	A2 30	LDX	#\$30					
3ED0-	A5 04	LDA	\$04					
3ED2-	D9 3A FE	CMP	\$FE3A,Y	\$FE3A				
3ED5-	A5 05	LDA	\$05					
3ED7-	F9 35 FE	SBC	\$FE35,Y	\$FE35				
3EDA-	90 0C	BCC	\$3EE8					
3EDC-	85 05	STA	\$05					
3EDE-	A5 04	LDA	\$04					
3EE0-	F9 3A FE	SBC	\$FE3A,Y	\$FE3A				
3EE3-	85 04	STA	\$04					
3EE5-	E8	INX						
3EE6-	D0 EA	BNE	\$3ED2					
3EE8-	8A	TXA						
3EE9-	99 AA 0C	STA	\$0CAA,Y					
3EEC-	88	DEY						
3EED-	10 DF	BPL	\$3ECE					
3EEF-	60	RTS						

3EF0-	01 02	ORA	(\$02,X)					
3EF2-	04	???						
3EF3-	08	PHP						
3EF4-	10 20	BPL	\$3F16					
3EF6-	40	RTI						
3EF7-	80	???						
3EF8-	00	BRK						
3EF9-	00	BRK						
3EFA-	00	BRK						
3EFB-	00	BRK						
3EFC-	00	BRK						
3EFD-	00	BRK						
3EFE-	00	BRK						
3EFF-	00	BRK						
[\$FB00]								
3F00-	00	BRK						
3F01-	01 03	ORA	(\$03,X)					
3F03-	07	???						
3F04-	0F	???						
3F05-	1F	???						
3F06-	3F	???						
3F07-	7F	???						
3F08-	FF	???						
3F09-	FF	???						
3F0A-	FF	???						
3F0B-	FF	???						
3F0C-	FF	???						
3F0D-	FF	???						
3F0E-	FF	???						
3F0F-	FF	???						

3F10-	FF	???						
3F11-	FE FC F8	INC	\$F8FC,X					
3F14-	F0 E0	BEQ	\$3EF6					
3F16-	C0 80	CPY	#\$80					
3F18-	00	BRK						
3F19-	00	BRK						
3F1A-	00	BRK						
3F1B-	00	BRK						
3F1C-	00	BRK						
3F1D-	00	BRK						
3F1E-	00	BRK						
3F1F-	00	BRK						
3F20-	00	BRK						
3F21-	01 02	ORA	(\$02,X)					
3F23-	0A	ASL						
3F24-	0B	???						
3F25-	0C	???						
3F26-	03	???						
3F27-	04	???						
3F28-	05 06	ORA	\$06					
3F2A-	00	BRK						
3F2B-	00	BRK						
3F2C-	00	BRK						
3F2D-	00	BRK						
3F2E-	00	BRK						
3F2F-	00	BRK						
3F30-	00	BRK						
3F31-	00	BRK						
3F32-	00	BRK						
3F33-	00	BRK						
3F34-	00	BRK						
3F35-	00	BRK						
3F36-	00	BRK						
3F37-	00	BRK						
3F38-	00	BRK						
3F39-	00	BRK						
3F3A-	00	BRK						
3F3B-	00	BRK						
3F3C-	00	BRK						
3F3D-	00	BRK						
3F3E-	00	BRK						
3F3F-	00	BRK						
3F40-	00	BRK						
3F41-	00	BRK						
3F42-	00	BRK						
3F43-	00	BRK						
3F44-	00	BRK						
3F45-	00	BRK						
3F46-	00	BRK						
3F47-	00	BRK						
3F48-	00	BRK						
3F49-	00	BRK						
3F4A-	00	BRK						
3F4B-	00	BRK						
3F4C-	00	BRK						
3F4D-	00	BRK						
3F4E-	00	BRK						
3F4F-	00	BRK						
3F50-	00	BRK						
3F51-	00	BRK						
3F52-	00	BRK						
3F53-	00	BRK						
3F54-	00	BRK						
3F55-	00	BRK						

3F56-	00	BRK							
3F57-	00	BRK							
3F58-	00	BRK							
3F59-	00	BRK							
3F5A-	00	BRK							
3F5B-	00	BRK							
3F5C-	00	BRK							
3F5D-	00	BRK							
3F5E-	00	BRK							
3F5F-	00	BRK							
3F60-	00	BRK							
3F61-	00	BRK							
3F62-	00	BRK							
3F63-	00	BRK							
3F64-	00	BRK							
3F65-	00	BRK							
3F66-	00	BRK							
3F67-	00	BRK							
3F68-	00	BRK							
3F69-	00	BRK							
3F6A-	00	BRK							
3F6B-	00	BRK							
3F6C-	00	BRK							
3F6D-	00	BRK							
3F6E-	00	BRK							
3F6F-	00	BRK							
3F70-	00	BRK							
3F71-	00	BRK							
3F72-	00	BRK							
3F73-	00	BRK							
3F74-	00	BRK							
3F75-	00	BRK							
3F76-	00	BRK							
3F77-	00	BRK							
3F78-	00	BRK							
3F79-	00	BRK							
3F7A-	00	BRK							
3F7B-	00	BRK							
3F7C-	00	BRK							
3F7D-	00	BRK							
3F7E-	00	BRK							
3F7F-	00	BRK							
3F80-	00	BRK							
3F81-	00	BRK							
3F82-	00	BRK							
3F83-	00	BRK							
3F84-	00	BRK							
3F85-	00	BRK							
3F86-	00	BRK							
3F87-	00	BRK							
3F88-	00	BRK							
3F89-	00	BRK							
3F8A-	00	BRK							
3F8B-	00	BRK							
3F8C-	00	BRK							
3F8D-	00	BRK							
3F8E-	00	BRK							
3F8F-	00	BRK							
3F90-	00	BRK							
3F91-	00	BRK							
3F92-	00	BRK							
3F93-	00	BRK							
3F94-	00	BRK							
3F95-	00	BRK							

3F96-	00	BRK							
3F97-	00	BRK							
3F98-	00	BRK							
3F99-	00	BRK							
3F9A-	00	BRK							
3F9B-	00	BRK							
3F9C-	00	BRK							
3F9D-	00	BRK							
3F9E-	00	BRK							
3F9F-	00	BRK							
3FA0-	00	BRK							
3FA1-	00	BRK							
3FA2-	00	BRK							
3FA3-	00	BRK							
3FA4-	00	BRK							
3FA5-	00	BRK							
3FA6-	00	BRK							
3FA7-	00	BRK							
3FA8-	00	BRK							
3FA9-	00	BRK							
3FAA-	00	BRK							
3FAB-	00	BRK							
3FAC-	00	BRK							
3FAD-	00	BRK							
3FAE-	00	BRK							
3FAF-	00	BRK							
3FB0-	00	BRK							
3FB1-	00	BRK							
3FB2-	00	BRK							
3FB3-	00	BRK							
3FB4-	00	BRK							
3FB5-	00	BRK							
3FB6-	00	BRK							
3FB7-	00	BRK							
3FB8-	00	BRK							
3FB9-	00	BRK							
3FBA-	00	BRK							
3FBB-	00	BRK							
3FBC-	00	BRK							
3FBD-	00	BRK							
3FBE-	00	BRK							
3FBF-	00	BRK							
3FC0-	00	BRK							
3FC1-	00	BRK							
3FC2-	00	BRK							
3FC3-	00	BRK							
3FC4-	00	BRK							
3FC5-	00	BRK							
3FC6-	00	BRK							
3FC7-	00	BRK							
3FC8-	00	BRK							
3FC9-	00	BRK							
3FCA-	00	BRK							
3FCB-	00	BRK							
3FCC-	00	BRK							
3FCD-	00	BRK							
3FCE-	00	BRK							
3FCF-	00	BRK							
3FD0-	00	BRK							
3FD1-	00	BRK							
3FD2-	00	BRK							
3FD3-	00	BRK							
3FD4-	00	BRK							
3FD5-	00	BRK							

3FD6-	00	BRK					
3FD7-	00	BRK					
3FD8-	00	BRK					
3FD9-	00	BRK					
3FDA-	00	BRK					
3FDB-	00	BRK					
3FDC-	00	BRK					
3FDD-	00	BRK					
3FDE-	00	BRK					
3FDF-	00	BRK					
3FE0-	00	BRK					
3FE1-	00	BRK					
3FE2-	00	BRK					
3FE3-	00	BRK					

\$FBE4 Banks table (see bootstrap)							
[\$FBE4]							
\$FBE4 table changed to:							
03 04 01 05							
3FE4-	00	BRK					
3FE5-	00	BRK	03 04 01 05	indicates 1 bank in Aux Mem (?)			
3FE6-	00	BRK		05 is a terminator to list.			
3FE7-	00	BRK		If more had been found, then			
3FE8-	00	BRK		repeat 03 04 01 in the list.			
3FE9-	00	BRK					
3FEA-	00	BRK					
3FEB-	00	BRK					
3FEC-	00	BRK					
3FED-	00	BRK					
3FEE-	00	BRK					
3FEF-	00	BRK					
3FF0-	00	BRK					
3FF1-	00	BRK					
3FF2-	00	BRK					
3FF3-	00	BRK					
3FF4-	00	BRK					
3FF5-	00	BRK					
3FF6-	00	BRK					
3FF7-	00	BRK					
3FF8-	00	BRK					
3FF9-	00	BRK					
3FFA-	00	BRK					
3FFB-	00	BRK					
3FFC-	00	BRK					
3FFD-	00	BRK					
3FFE-	00	BRK					
3FFF-	00	BRK					
Table of p-code Jumps to instructions (or possibly pseudo instructions?) \$FD00 is high half. indexed by X. X=CD is first time.							
[\$FC00]							
4000-	00	BRK					
4001-	00	BRK					
4002-	00	BRK					
4003-	00	BRK					
4004-	00	BRK					
4005-	00	BRK					
4006-	00	BRK					
4007-	00	BRK					
4008-	00	BRK					
4009-	00	BRK					
400A-	00	BRK					

400B-	00	BRK							
400C-	00	BRK							
400D-	00	BRK							
400E-	00	BRK							
400F-	00	BRK							
4010-	00	BRK							
4011-	00	BRK							
4012-	00	BRK							
4013-	00	BRK							
4014-	00	BRK							
4015-	00	BRK							
4016-	00	BRK							
4017-	00	BRK							
4018-	00	BRK							
4019-	00	BRK							
401A-	00	BRK							
401B-	00	BRK							
401C-	00	BRK							
401D-	00	BRK							
401E-	00	BRK							
401F-	00	BRK							
4020-	00	BRK							
4021-	00	BRK							
4022-	00	BRK							
4023-	00	BRK							

Aux Memory table used with \$FBE4 table									
Set up during BOOTSTRAP.									
[\$FC24]									
4024-	00	BRK	FC24: 00 00 00 00	<=	After	BOOTSTRAP			
4025-	00	BRK	00 Terminator						
4026-	00	BRK	First 3 values are the BANK#.						
4027-	00	BRK	For AppleWin, Aux memory has only 1 bank.						
4028-	00	BRK	RAMWorks can have multiple 64K banks.						
4029-	00	BRK	There are 3 entries for each 64K bank.						
402A-	00	BRK							
402B-	00	BRK							
402C-	00	BRK							
402D-	00	BRK							
402E-	00	BRK							
402F-	00	BRK							
4030-	00	BRK							
4031-	00	BRK							
4032-	00	BRK							
4033-	00	BRK							
4034-	00	BRK							
4035-	00	BRK							
4036-	00	BRK							
4037-	00	BRK							
4038-	00	BRK							
4039-	00	BRK							
403A-	00	BRK							
403B-	00	BRK							
403C-	00	BRK							
403D-	00	BRK							
403E-	00	BRK							
403F-	00	BRK							
4040-	00	BRK							
4041-	00	BRK							
4042-	00	BRK							
4043-	00	BRK							
4044-	00	BRK							
4045-	00	BRK							
4046-	00	BRK							

4082-	84 03	STY	\$03						
4084-	7B	???							
4085-	4D F4 03	EOR	\$03F4						
4088-	46 03	LSR	\$03						
408A-	03	???							
408B-	97	???							
408C-	28	PLP							
408D-	8D 1E B1	STA	\$B11E						
4090-	03	???							
4091-	6F	???							
4092-	03	???							
4093-	9F	???							
4094-	23	???							
4095-	97	???							
4096-	03	???							
4097-	1A	???							
4098-	E7	???							
4099-	03	???							
409A-	1E 29 F7	ASL	\$F729,X						
409D-	03	???							
409E-	7B	???		\$FC00,9E == CSP	\$DC7B				
409F-	90 D0	BCC	\$4071						
40A1-	FF	???							
40A2-	6D 0B 7B	ADC	\$7B0B						
40A5-	D0 CE	BNE	\$4075						
40A7-	03	???							
40A8-	56 AC	LSR	\$AC,X						
40AA-	E2	???							
40AB-	EC 27 16	CPX	\$1627						
40AE-	CB	???							
40AF-	AF	???							
40B0-	AF	???							
40B1-	AF	???							
40B2-	CB	???							
40B3-	6C AF AF	JMP	(\$FAF)						
40B6-	B2	???							
40B7-	AF	???							
40B8-	F2	???							
40B9-	04	???							
40BA-	F9 2F 8C	SBC	\$8C2F,Y						
40BD-	A7	???							
40BE-	34	???							
40BF-	4D C4 06	EOR	\$06C4						
40C2-	82	???							
40C3-	68	PLA							
40C4-	4A	LSR							
40C5-	9A	TXS							
40C6-	D6 E6	DEC	\$E6,X						
40C8-	15 2A	ORA	\$2A,X						
40CA-	B8	CLV							
40CB-	82	???							
40CC-	F8	SED							
	[\$FCDD]								
40CD-	9F	???		CXP	\$D59F	(See \$FxCD)			
40CE-	72	???							
40CF-	63	???							
40D0-	A9 03	LDA	#\$03						
40D2-	03	???							
40D3-	03	???							
40D4-	03	???							
40D5-	03	???							
40D6-	03	???							
40D7-	97	???							

41F6-	D1 D1	CMP	(\$D1),Y						
41F8-	D1 D1	CMP	(\$D1),Y						
41FA-	D1 D1	CMP	(\$D1),Y						
41FC-	D1 D1	CMP	(\$D1),Y						
41FE-	D1 D1	CMP	(\$D1),Y						
4200-	8E D9 0C	STX	\$0CD9						

[\$FE03] --- Not implemented pCodes (?)									
			pCode=#\$81	ABR	Absolute of Real				
			pCode=#\$83	ADR	Add Reals				
			pCode=#\$87	DVR	Divide Reals				
			pCode=#\$89	FLO	Float TOS-1				
			pCode=#\$8A	FLT	Float TOS				
			pCode=#\$90	MPR	Multiply Reals				
			pCode=#\$92	NGR	Negate Real				
			pCode=#\$96	SBR	Subtract Reals				
			pCode=#\$99	SQR	Square Real				
			pCode=#\$9D	LDE	Load Extended Word				
			pCode=#\$A7	LAE	Load Extended Addr				
			pCode=#\$D1	STE	Store Extended Word				
			pCode=#\$D3	EFJ	Equal False Jump				
			pCode=#\$D4	NFJ	Not Equal False Jump				
			pCode=#\$D5	BPT	Breakpoint				
			pCode=#\$D6	XIT	Exit OS				
4203-	8D D8 0C	STA	\$0CD8						
4206-	8C D7 0C	STY	\$0CD7						
4209-	A0 00	LDY	#\$00						
420B-	B1 B6	LDA	(\$B6),Y						
420D-	8D D6 0C	STA	\$0CD6						
4210-	B1 B8	LDA	(\$B8),Y						
4212-	8D D5 0C	STA	\$0CD5						
4215-	A9 53	LDA	#\$53						
4217-	8D BA 0C	STA	\$0CBA						
421A-	A9 72	LDA	#\$72						
421C-	8D D2 0C	STA	\$0CD2						
421F-	A9 87	LDA	#\$87						
4221-	8D E9 0C	STA	\$0CE9						
4224-	A2 FF	LDX	#\$FF						
4226-	8E BB 0C	STX	\$0CBB						
4229-	8E D3 0C	STX	\$0CD3						
422C-	8E EA 0C	STX	\$0CEA						
422F-	20 A9 EB	JSR	\$EBA9						
[\$FE32]									
4232-	4C 32 FE	JMP	\$FE32	Infinite Loop here!					

[\$FE35]									
4235-	00	BRK							
4236-	00	BRK							
4237-	00	BRK							
4238-	03	???							
4239-	27	???							
[\$FE3A]									
423A-	01 0A	ORA	(\$0A,X)						
423C-	64	???							
423D-	A0 03	LDY	#\$03						
423F-	20 43 FE	JSR	\$FE43						
4242-	8A	TXA							

42EE-	19 1B 1D	ORA	\$1D1B,Y						
42F1-	1F	???							
42F2-	21 23	AND	(\$23,X)						
42F4-	25 27	AND	\$27						
42F6-	29 2B	AND	#\$2B						
42F8-	01 03	ORA	(\$03,X)						
42FA-	05 07	ORA	\$07						
42FC-	09 0B	ORA	#\$0B						
42FE-	0D 0F 44	ORA	\$440F						
4301-	69 73	ADC	#\$73						
4303-	6B	???							
4304-	65 74	ADC	\$74						
4306-	74	???							
4307-	65 20	ADC	\$20						
4309-	49 73	EOR	#\$73						
430B-	20 57 72	JSR	\$7257						
430E-	69 74	ADC	#\$74						
??									
Table: FE10,X									
X = 1..16									
SLDL X									
[\$FE10]??									
4310-	65 2D	ADC	\$2D						
4312-	50 72	BVC	\$4386						
4314-	6F	???							
4315-	74	???							
4316-	65 63	ADC	\$63						
4318-	74	???							
4319-	65 64	ADC	\$64						
431B-	00	BRK							
[\$FF1C]									
431C-	50 6C	BVC	\$438A	Please Insert SCENARIO Diskett %c					
431E-	65 61	ADC	\$61						
4320-	73	???							
4321-	65 20	ADC	\$20						
4323-	49 6E	EOR	#\$6E						
4325-	73	???							
4326-	65 72	ADC	\$72						
4328-	74	???							
4329-	20 53 43	JSR	\$4353						
432C-	45 4E	EOR	\$4E						
432E-	41 52	EOR	(\$52,X)						
4330-	49 4F	EOR	#\$4F						
4332-	20 44 69	JSR	\$6944						
4335-	73	???							
4336-	6B	???							
4337-	65 74	ADC	\$74						
4339-	74	???							
433A-	65 20	ADC	\$20						
433C-	25 63	AND	\$63						
433E-	00	BRK							
[\$FF3F]									
433F-	50 72	BVC	\$43B3	Press ~ To Continue					
4341-	65 73	ADC	\$73						
4343-	73	???							
4344-	20 7E 20	JSR	\$207E						
4347-	54	???							
4348-	6F	???							
4349-	20 43 6F	JSR	\$6F43						
434C-	6E 74 69	ROR	\$6974						
434F-	6E 75 65	ROR	\$6575						
4352-	00	BRK							

[FF53]								
4353-	41 20	EOR	(\$20,X)	A Serious Problem Has Occurred				
4355-	53	???						
4356-	65 72	ADC	\$72					
4358-	69 6F	ADC	#\$6F					
435A-	75 73	ADC	\$73,X					
435C-	20 50 72	JSR	\$7250					
435F-	6F	???						
4360-	62	???						
4361-	6C 65 6D	JMP	(\$6D65)					
4364-	20 48 61	JSR	\$6148					
4367-	73	???						
4368-	20 4F 63	JSR	\$634F					
436B-	63	???						
436C-	75 72	ADC	\$72,X					
436E-	72	???						
436F-	65 64	ADC	\$64					
4371-	00	BRK						
[FF71]								
4372-	4E 6F 74	LSR	\$746F	Note: %h %h %h %h %h				
4375-	65 3A	ADC	\$3A					
4377-	20 25 68	JSR	\$6825					
437A-	20 25 68	JSR	\$6825					
437D-	20 25 68	JSR	\$6825					
4380-	20 25 68	JSR	\$6825					
4383-	20 25 68	JSR	\$6825					
4386-	00	BRK						
[FF87]								
4387-	50 6C	BVC	\$43F5	Please Restart From Diskette "A"				
4389-	65 61	ADC	\$61					
438B-	73	???						
438C-	65 20	ADC	\$20					
438E-	52	???						
438F-	65 73	ADC	\$73					
4391-	74	???						
4392-	61 72	ADC	(\$72,X)					
4394-	74	???						
4395-	20 46 72	JSR	\$7246					
4398-	6F	???						
4399-	6D 20 44	ADC	\$4420					
439C-	69 73	ADC	#\$73					
439E-	6B	???						
439F-	65 74	ADC	\$74					
43A1-	74	???						
43A2-	65 20	ADC	\$20					
43A4-	22	???						
43A5-	41 22	EOR	(\$22,X)					
43A7-	00	BRK						
[FFA8]								
43A8-	41 20	EOR	(\$20,X)	A Problem Has Occurred While Reading				
43AA-	50 72	BVC	\$441E					
43AC-	6F	???						
43AD-	62	???						
43AE-	6C 65 6D	JMP	(\$6D65)					
43B1-	20 48 61	JSR	\$6148					
43B4-	73	???						
43B5-	20 4F 63	JSR	\$634F					
43B8-	63	???						
43B9-	75 72	ADC	\$72,X					
43BB-	72	???						

43BC-	65 64	ADC	\$64						
43BE-	20 57 68	JSR	\$6857						
43C1-	69 6C	ADC	#\$6C						
43C3-	65 20	ADC	\$20						
43C5-	52	???							
43C6-	65 61	ADC	\$61						
43C8-	64	???							
43C9-	69 6E	ADC	#\$6E						
43CB-	67	???							
43CC-	00	BRK							
[\$FFCD]									
43CD-	44	???		The Diskette In Drive %h					
43CE-	69 73	ADC	#\$73						
43D0-	6B	???							
43D1-	65 74	ADC	\$74						
43D3-	74	???							
43D4-	65 20	ADC	\$20						
43D6-	22	???							
43D7-	25 63	AND	\$63						
43D9-	22	???							
43DA-	00	BRK							
[\$FFDB]									
43DB-	54	???							
43DC-	68	PLA							
43DD-	65 20	ADC	\$20						
43DF-	44	???							
43E0-	69 73	ADC	#\$73						
43E2-	6B	???							
43E3-	65 74	ADC	\$74						
43E5-	74	???							
43E6-	65 20	ADC	\$20						
43E8-	49 6E	EOR	#\$6E						
43EA-	20 44 72	JSR	\$7244						
43ED-	69 76	ADC	#\$76						
43EF-	65 20	ADC	\$20						
43F1-	25 68	AND	\$68						
43F3-	00	BRK							
[\$FFF4]									
43F4-	4C 22 DF	JMP	\$DF22	Jump after I/O error to Dir during boot					
[\$FFF7]									
43F7-	4C FE E7	JMP	\$E7FE	Jump to read block of sectors (Dir?)					
43FA-	BB	???							
43FB-	E7	???							
43FC-	BB	???							
43FD-	E7	???							
43FE-	BB	???							
43FF-	E7	???							

Updated June 8, 2015								
INTERP last 4 sectors. Loaded to \$BC00..BFFF								
\$D000..FFFF contains first part of INTERP								
\$BC00.\$BFFF contains last 2 blocks of INTERP								
JMP from \$D021 during boot.								
\$FB = Slot# * 16 (e.g., \$60)								
\$F3 = \$Cx (x = Boot Slot, e.g., \$C6)								
[\$BC00]								
0900-	A2 FF	LDX	#\$FF					
0902-	9A	TXS						
0903-	58	CLI						
0904-	D8	CLD						
0905-	20 A4 BC	JSR	\$BCA4	Init lots of memory				
Transfer Pascal "heart beat" code to zpage at \$90								
Display "WIZARDRY FOR THE APPLE II"								
0908-	20 F9 BC	JSR	\$BCF9	Read SYSTEM.PASCAL Segment Table into Active Seg table(s)				
090B-	20 EF BD	JSR	\$BDEF	Check for Disk Devices				
(update tables at \$FC63 \$FC71, 4=boot Slot 6 Drive 1)								
[\$BC0E]								
090E-	4C 9D 00	JMP	\$009D	(Code at \$BC74 transferred to \$90.)				
[\$BC3A points to \$BC08.								
Use this to get to "SYSTEM.PASCAL" string below.]								

0911-	0D 53 59	ORA	\$5953	\$0D "SYSTEM.PASCAL"				
0914-	53	???						
0915-	54	???						
0916-	45 4D	EOR	\$4D					
0918-	2E 50 41	ROL	\$4150					
091B-	53	???						
091C-	43	???						
091D-	41 4C	EOR	(\$4C,X)					
091F-	00	BRK						

0920-	57	???		"WIZARDRY FOR THE APPLE II"				
0921-	49 5A	EOR	#\$5A					
0923-	41 52	EOR	(\$52,X)					
0925-	44	???						
0926-	52	???						
0927-	59 20 46	EOR	\$4620,Y					
092A-	4F	???						
092B-	52	???						
092C-	20 54 48	JSR	\$4854					
092F-	45 20	EOR	\$20					
0931-	41 50	EOR	(\$50,X)					
0933-	50 4C	BVC	\$0981					
0935-	45 20	EOR	\$20					
0937-	49 49	EOR	#\$49					
0939-	00	BRK						

093A-	0B	???		Pointer \$BC0B to get to "SYSTEM.PASCAL"				
093B-	BC			string while checking DIRECTORY				

	45 52	"ERROR: SYSTEM.PASCAL NOT FOUND"					
093E-	52	???					
093F-	4F	???					
0940-	52	???					
0941-	3A	???					
0942-	20 53 59	JSR	\$5953				
0945-	53	???					
0946-	54	???					
0947-	45 4D	EOR	\$4D				
0949-	2E 50 41	ROL	\$4150				
094C-	53	???					
094D-	43	???					
094E-	41 4C	EOR	(\$4C,X)				
0950-	20 4E 4F	JSR	\$4F4E				
0953-	54	???					
0954-	20 46 4F	JSR	\$4F46				
0957-	55 4E	EOR	\$4E,X				
0959-	44	???					
095A-	00	BRK					

095B-	54	???	"TYPE <RETURN> TO RESTART"				
095C-	59 50 45	EOR	\$4550,Y				
095F-	20 3C 52	JSR	\$523C				
0962-	45 54	EOR	\$54				
0964-	55 52	EOR	\$52,X				
0966-	4E 3E 20	LSR	\$203E				
0969-	54	???					
096A-	4F	???					
096B-	20 52 45	JSR	\$4552				
096E-	53	???					
096F-	54	???					
0970-	41 52	EOR	(\$52,X)				
0972-	54	???					
0973-	00	BRK					

--- Heart of the Beast ---							
--- pCode interpreted here! ---							

See \$BCEA, 48 bytes transfered to z-page							
To: \$90..BF							
[\$BC74]							
[90]							
0974-	A2 00	LDX	#\$00				
0976-	A9 00	LDA	#\$00				
0978-	48	PHA					
0979-	8A	TXA					
097A-	48	PHA					
097B-	E6 9E	INC	\$9E	Self Modify some code!			
097D-	D0 02	BNE	\$0981				
097F-	E6 9F	INC	\$9F	Self Modify some code!			

[9D]							
To \$9D at \$BC0E							
0981-	AE FB BF	LDX	\$BFFB	This code self modified!			
0984-	10 F0	BPL	\$0976				

0986-	BD 00 FC	LDA	\$FC00,X				
0989-	85 AD	STA	\$AD				
098B-	BD 00 FD	LDA	\$FD00,X				
098E-	85 AE	STA	\$AE				
	[AC]						
0990-	4C 00 FE	JMP	\$xxxx	Self Modified code!			
0993-	4C 00 00	JMP	\$0000				
0996-	F0 BF						
	[B4]						
0998-	00 10			B4.B5 is buffer to Directory (?)			
	91 BC						
	91 BC						
099E-	91 BB						
09A0-	F0 BF						
	[BE]						
09A2-	EE BF			\$BE.BF === KP stack ptr			

	[\$BCA4]			To here from: \$BC05			
		LDA	#\$04	\$C8.C9 --> \$0400			
09A6-	85 C9	STA	\$C9				
09A8-	A0 00	LDY	#\$00				
09AA-	84 C8	STY	\$C8				
09AC-	A2 08	LDX	#\$08	Clear \$0400..0BFF to " "			
09AE-	A9 A0	LDA	#\$A0	Primary and Secondary Text Screens			
09B0-	91 C8	STA	(\$C8),Y				
09B2-	C8	INY					
09B3-	D0 FB	BNE	\$09B0				
09B5-	E6 C9	INC	\$C9				
09B7-	CA	DEX					
09B8-	D0 F6	BNE	\$09B0				
09BA-	BD 20 BC	LDA	\$BC20,X	Move "WIZARDRY FOR THE APPLE II"			
09BD-	F0 08	BEQ	\$09C7				
09BF-	09 80	ORA	#\$80				
09C1-	9D 87 04	STA	\$0487,X	To: text screen at line 1 (0 based)			
09C4-	E8	INX					
09C5-	D0 F3	BNE	\$09BA				
09C7-	A9 00	LDA	#\$00	Clear rest of RAM to 0			
09C9-	A2 AF	LDX	#\$AF	\$0C00..\$BBFF			
09CB-	91 C8	STA	(\$C8),Y				
09CD-	C8	INY					
09CE-	D0 FB	BNE	\$09CB				
09D0-	E6 C9	INC	\$C9				
09D2-	CA	DEX					
09D3-	D0 F6	BNE	\$09CB				
09D5-	A2 F2	LDX	#\$F2	Clear Z-page \$01..\$F2			
09D7-	95 00	STA	\$00,X				
09D9-	CA	DEX					
09DA-	D0 FB	BNE	\$09D7				

09DC-	A0 07	LDY	#\$07	Clear some "holes" in screen pages to zeros (0).
09DE-	99 78 04	STA	\$0478,Y	7 of these
09E1-	99 F8 04	STA	\$04F8,Y	7 of these
09E4-	88	DEY		
09E5-	D0 F7	BNE	\$09DE	
09E7-	8D F8 04	STA	\$04F8	+ 1 more (Leave \$0478 alone! (Current Disk Track(?))
[\$BCEA]				
09EA-	A2 2F	LDX	#\$2F	Transfer \$BC74..BCA3
09EC-	BD 74 BC	LDA	\$BC74,X	To: \$90..BF
09EF-	95 90	STA	\$90,X	
09F1-	CA	DEX		
09F2-	10 F8	BPL	\$09EC	
09F4-	A9 01	LDA	#\$01	\$E8 := 1
09F6-	85 E8	STA	\$E8	UNITWRITE(13, -3, 25, 0) also sets to 1
09F8-	60	RTS		

Read Directory & Find "SYSTEM.PASCAL"				
[\$BCF9] From \$BC00 after initializing memory, etc.				
09F9-	A5 B4	LDA	\$B4	\$30 := (\$B4)
09FB-	85 30	STA	\$30	
09FD-	A5 B5	LDA	\$B5	\$31 := (\$B5)
09FF-	85 31	STA	\$31	
Read PASCAL Directory to \$B4.B5--> (\$1000)				
2D := 4 Device				
2E := 0				
2F := 0				
30.31 := I/O Buffer (Initially \$1000)				
32.33 := Length (#\$800 = 8 sectors)				
34 := 2 34.35 = block addr for I/O				
35 := 0				
X := 0				
[\$BD01]				
0901-	A2 00	LDX	#00	
0903-	86 2E	STX	\$2E	
0905-	86 2F	STX	\$2F	
0907-	A9 08	LDA	#\$08	
0909-	86 32	STX	\$32	
090B-	85 33	STA	\$33	
090D-	A9 02	LDA	#\$02	
090F-	85 34	STA	\$34	
0911-	86 35	STX	\$35	
0913-	A9 04	LDA	#\$04	
0915-	85 2D	STA	\$2D	
0917-	20 F7 FF	JSR	FFFF7	JMP \$E7FE (Read block of sectors; The DIR)
091A-	8A	TXA		
091B-	D0 32	BNE	\$094F	Error, Give bad news

	Read SYSTEM.PASCAL Segment Dictionary into memory				
	Update "Active Segment" table(s) at \$0C19 and \$0C3A.				
[\$BD82]	After finding "SYSTEM.PASCAL" Dir entry				
	\$C8.C9 -->SYSTEM.PASCAL Dir Entry				
	Set up to read				
	2D := 4 (Device) ASSUMES Slot#6, Drive #1				
	30.31 := \$B4.B5 buffer (\$1000)				
	32 := 0				
	33 := 2 sectors (1 block)				
	34.35 := First Block System.Pascal 34.35 = BLOCK addr for I/O				
	C8.C9 := \$B4.B5 buffer (\$1000)				
	F8.F9 := First Block System.Pascal				
	(Segment Dictionary)				
	X := 0				
[\$BD82]					
0982-	A9 02	LDA	#\$02		
0984-	85 33	STA	\$33		
0986-	A0 00	LDY	#\$00		
0988-	84 32	STY	\$32		
098A-	B1 C8	LDA	(\$C8),Y		
098C-	85 34	STA	\$34		
098E-	85 F8	STA	\$F8		
0990-	C8	INY			
0991-	B1 C8	LDA	(\$C8),Y		
0993-	85 35	STA	\$35		
0995-	85 F9	STA	\$F9		
0997-	A5 B4	LDA	\$B4		
0999-	85 30	STA	\$30		
099B-	85 C8	STA	\$C8		
099D-	A5 B5	LDA	\$B5		
099F-	85 31	STA	\$31		
09A1-	85 C9	STA	\$C9		
09A3-	A9 04	LDA	#\$04		
09A5-	85 2D	STA	\$2D		
09A7-	A2 00	LDX	#\$00		
09A9-	20 F7 FF	JSR	FFFF7	JMP \$E7FE to read block of sectors	
09AC-	8A	TXA			
09AD-	D0 A0	BNE	\$094F	Error, \$094F to give bad news	
[\$BDAF]					
09AF-	A5 C8	LDA	\$C8	\$C8.C9 == I/O buffer	
09B1-	A6 C9	LDX	\$C9		
09B3-	E8	INX			
09B4-	85 CA	STA	\$CA	\$CA.CB == I/O buffer + \$256	
09B6-	86 CB	STX	\$CB	(Next sector of Seg Dictionary)	
09B8-	A2 0F	LDX	#\$0F	16 Segments	
09BA-	A0 3F	LDY	#\$3F	Start with segment 15 and work back to 0	
09BC-	84 04	STY	\$04	...and at the end of the 4 byte entry (Addr, Length)	
09BE-	A4 04	LDY	\$04	\$0C19 is Active Segment Table (?) (\$0C19(?))	

090C-	20 1C BE	JSR	\$BE1C	***** Y changes *****		
090F-	88	DEY				
0910-	C0 C1	CPY	#\$C1	#\$C1		
0912-	B0 F4	BCS	\$0908			
0914-	AD 80 C0	LDA	\$C080			
0917-	60	RTS				

0918-	00	BRK		See \$BEA3		
0919-	80	???				
091A-	C0 40	CPY	#\$40			

[BE1C]						
				Check 1 slot for disk drives		
091C-	84 53	STY	\$53	...First Time, \$52.53 := #\$C600		
091E-	20 58 BF	JSR	\$BF58	A := sum of 256 bytes at \$52.53		
0921-	85 50	STA	\$50	X > 0 means sum > 255		
0923-	65 F6	ADC	\$F6			
0925-	85 F6	STA	\$F6	F6.F7 === Random Number (?)		
0927-	8A	TXA				
0928-	65 F7	ADC	\$F7			
092A-	85 F7	STA	\$F7			
092C-	E0 00	CPX	#\$00	Anything in slot?		
092E-	F0 2B	BEQ	\$095B	No, (e.g., #\$C700 BEQ)		
0930-	86 51	STX	\$51	\$50.51 := sum at \$52.53 -->		
0932-	20 58 BF	JSR	\$BF58	A := Sum again		
0935-	C5 50	CMP	\$50	See if we get same results as above		
0937-	D0 22	BNE	\$095B	to verify we have something		
0939-	E4 51	CPX	\$51	in the slot.		
093B-	D0 1E	BNE	\$095B			
				Seems we have something in this slot		
[\$BE3D]						
093D-	A0 01	LDY	#\$01	Check for Disk Device		
093F-	B1 52	LDA	(\$52),Y			
0941-	C9 20	CMP	#\$20	\$\$\$C01 = #\$20?		
0943-	D0 16	BNE	\$095B	No, \$BE5B		
0945-	A0 03	LDY	#\$03			
0947-	B1 52	LDA	(\$52),Y	\$\$\$C03 = #\$00?		
0949-	D0 10	BNE	\$095B	No, \$BE5B		
094B-	A0 05	LDY	#\$05			
094D-	B1 52	LDA	(\$52),Y	\$\$\$C05 = #\$03?		
094F-	C9 03	CMP	#\$03			
0951-	D0 08	BNE	\$095B	No, \$BE5B		
0953-	A0 FF	LDY	#\$FF			
0955-	B1 52	LDA	(\$52),Y			
0957-	C9 FF	CMP	#\$FF	\$\$\$CFF = #\$FF?		
0959-	D0 01	BNE	\$095C	No, \$BE5C Disk Controller		
095B-	60	RTS		Not a Disk Controller, RETURN		

				--- To here if Disk Controller ---		
[BE5C]						
095C-	AA	TAX		\$\$\$CFF byte (=0 for disk controller)		
095D-	F0 6E	BEQ	\$09CD	Disk II? Yes, \$BECD...First Time		
[BE5F]				-----		

095F-	88	DEY		Can any of this code			
0960-	B1 52	LDA	(\$52),Y	ever execute with AppleWin?			
0962-	4A	LSR					
0963-	90 F6	BCC	\$095B				
0965-	4A	LSR					
0966-	90 F3	BCC	\$095B				
0968-	4A	LSR					
0969-	4A	LSR					
096A-	29 03	AND	#\$03				
096C-	85 08	STA	\$08				
096E-	A5 53	LDA	\$53				
0970-	0A	ASL					
0971-	0A	ASL					
0972-	0A	ASL					
0973-	0A	ASL					
0974-	85 10	STA	\$10				
0976-	A0 FB	LDY	#\$FB				
0978-	B1 52	LDA	(\$52),Y				
097A-	4A	LSR					
097B-	08	PHP					
097C-	90 1C	BCC	\$099A				
097E-	A6 54	LDX	\$54				
0980-	E0 11	CPX	#\$11				
0982-	B0 D7	BCS	\$095B				
0984-	A4 FC	LDY	\$FC				
0986-	C0 40	CPY	#\$40				
0988-	B0 D1	BCS	\$095B				
098A-	98	TYA					
098B-	D0 08	BNE	\$0995				
098D-	86 FF	STX	\$\$FF				
098F-	8E 24 FC	STX	\$FC24				
0992-	C8	INY					
0993-	E6 FC	INC	\$FC				
0995-	8A	TXA					
0996-	99 24 FC	STA	\$FC24,Y				
0999-	2C A6 07	BIT	\$07A6	\$099A::LDX \$07			
099C-	A0 00	LDY	#\$00				
099E-	A5 53	LDA	\$53				
09A0-	9D 63 FC	STA	\$FC63,X	\$FC63,X			
09A3-	B9 18 BE	LDA	\$BE18,Y	\$BE18,Y			
09A6-	18	CLC					
09A7-	65 10	ADC	\$10				
09A9-	9D 71 FC	STA	\$FC71,X	\$FC71,X			
09AC-	E0 05	CPX	#\$05				
09AE-	D0 02	BNE	\$09B2				
09B0-	A2 08	LDX	#\$08				
09B2-	E8	INX					
09B3-	C8	INY					
09B4-	C4 08	CPY	\$08				
09B6-	90 E6	BCC	\$099E				
09B8-	28	PLP					
09B9-	B0 03	BCS	\$09BE				
09BB-	86 07	STX	\$07				
09BD-	60	RTS					
09BE-	86 54	STX	\$54				
09C0-	98	TYA					

09C1-	18	CLC					
09C2-	65 FC	ADC	\$FC				
09C4-	C9 40	CMP	#\$40				
09C6-	90 02	BCC	\$09CA				
09C8-	A9 40	LDA	#\$40				
09CA-	85 FC	STA	\$FC				
09CC-	60	RTS		See note at \$BE5F			

Process the DISK II controller							
[\$BECD]							
09CD-	A5 53	LDA	\$53	Slot address HIGH part (\$C6 boot slot)			
09CF-	0A	ASL					
09D0-	0A	ASL					
09D1-	0A	ASL					
09D2-	0A	ASL					
09D3-	85 0C	STA	\$0C	\$0C := Slot * #\$60 (\$60 for slot 6, Drive 1)			
====Begin Loop to process up to 2 drives====							
\$0C := \$60, \$61, \$70, \$71, \$50, \$51, ...							
[\$BED5]							
09D5-	A6 FB	LDX	\$FB	Wait for previous drive to stop spinning			
09D7-	BD 8E C0	LDA	\$C08E,X	C08E Prepare Latch for Input			
09DA-	BD 8C C0	LDA	\$C08C,X	C08C Strobe Data Latch			
09DD-	A0 08	LDY	#\$08				
09DF-	DD 8C C0	CMP	\$C08C,X	C08C Strobe Data Latch			
09E2-	D0 F6	BNE	\$09DA	Drive is still spinning, \$09DA			
09E4-	88	DEY		Try to get 8 consecutive identical reads			
09E5-	D0 F8	BNE	\$09DF				
09E7-	A0 07	LDY	#\$07	Got them. Drive should be stopped now.			
09E9-	20 67 BF	JSR	\$BF67	BF67 === Wait a bit			
09EC-	88	DEY					
09ED-	D0 FA	BNE	\$09E9	Wait a bit longer			
Previous processed drive							
has stopped spinning							
09EF-	A5 53	LDA	\$53	Slot we are currently processing			
09F1-	0A	ASL					
09F2-	0A	ASL					
09F3-	0A	ASL					
09F4-	0A	ASL					
09F5-	85 FB	STA	\$FB	\$FB := #\$60, #\$70, etc.			
09F7-	AA	TAX					
09F8-	BD 89 C0	LDA	\$C089,X	MotorOn			
09FB-	A6 FB	LDX	\$FB				
09FD-	BD 8E C0	LDA	\$C08E,X	C08E Prepare Latch for Input			
[\$BF00]							
0900-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch			
0903-	A4 0C	LDY	\$0C	Y := \$0C (e.g., #\$60, #\$61, #\$50, #\$51, etc.)			
0905-	B9 8A C0	LDA	\$C08A,Y	Engage Drive #1 or #2			
0908-	A0 0D	LDY	#\$0D	09 := #\$0D			
090A-	84 09	STY	\$09				
090C-	A0 30	LDY	#\$30	0A := #\$30			
090E-	84 0A	STY	\$0A				

0910-	A0 09	LDY	#\$09				
0912-	BD 8C C0	LDA	\$C08C,X	Strobe Data Latch			
0915-	88	DEY					
0916-	F0 24	BEQ	\$093C [\$BF3C]	Eventually took this jump			
0918-	48	PHA		when 9 reads in a row			
0919-	68	PLA		differ from previous one			
091A-	48	PHA					
091B-	68	PLA					
091C-	DD 8C C0	CMP	\$C08C,X	Strobe Data Latch			
091F-	D0 F1	BNE	\$0912	Data changing? Yes, \$0912			
0921-	C6 0A	DEC	\$0A	...First Time EQ			
0923-	D0 EB	BNE	\$0910				
0925-	C6 09	DEC	\$09				
0927-	D0 E7	BNE	\$0910	Retry a bunch of times.			
				If still the same values, then fall through			
				as though no drive there.			
0929-	BD 88 C0	LDA	\$C088,X	MotorOff			
092C-	A4 0C	LDY	\$0C	Processing drive #1?			
092E-	C4 FB	CPY	\$FB				
0930-	D0 05	BNE	\$0937	No, \$0937			
0932-	E6 0C	INC	\$0C	Yes, try drive #2			
0934-	4C D5 BE	JMP	\$BED5				
0937-	A0 01	LDY	#\$01	To here after doing 2 drives			
0939-	84 FA	STY	\$FA				
093B-	60	RTS					

				Found a diskette in a drive			
				[\$BF3C]			
093C-	BD 88 C0	LDA	\$C088,X	MotorOff ...First Time took this path			
093F-	A6 07	LDX	\$07	X := Device (4 = boot)			
0941-	A5 FB	LDA	\$FB	*****			
0943-	9D 63 FC	STA	\$FC63,X	*		*	
0946-	A5 0C	LDA	\$0C	*		*	
0948-	29 01	AND	#\$01	*		*	
094A-	9D 71 FC	STA	\$FC71,X	*		*	
094D-	E0 05	CPX	#\$05	*****			
094F-	D0 02	BNE	\$0953				
0951-	A2 08	LDX	#\$08	After 5, then do 9 (slot #4, Drive 1)			
0953-	E8	INX		After 4, do 5			
0954-	86 07	STX	\$07				
0956-	10 D4	BPL	\$092C	4, 5, 9, 10, 11, 12			

				[\$BF58]			
				Sum 256 bytes pointed to by:			
				\$52.53--> (such as \$C600)			
0958-	18	CLC					
0959-	A9 00	LDA	#\$00	A=X=Y= 0			
095B-	AA	TAX					
095C-	A8	TAY					
095D-	71 52	ADC	(\$52),Y	A = Sum 256 bytes			
095F-	90 02	BCC	\$0963				
0961-	E8	INX		X indicates sum is > 255			
0962-	18	CLC					

0963-	C8	INY					
0964-	D0 F7	BNE	\$095D				
0966-	60	RTS					

[\$BF67]							
0967-	A2 11	LDX	#\$11	Wait a bit			
0969-	CA	DEX					
096A-	D0 FD	BNE	\$0969				
096C-	E6 49	INC	\$49				
096E-	D0 02	BNE	\$0972				
0970-	E6 48	INC	\$48				
0972-	38	SEC					
0973-	E9 01	SBC	#\$01				
0975-	D0 F0	BNE	\$0967				
0977-	60	RTS					

0978-	00	BRK					
0979-	00	BRK					
097A-	00	BRK					
097B-	00	BRK					
097C-	00	BRK					
097D-	00	BRK					
097E-	00	BRK					
097F-	00	BRK					
0980-	00	BRK					
0981-	00	BRK					
0982-	00	BRK					
0983-	00	BRK					
0984-	00	BRK					
0985-	00	BRK					
0986-	00	BRK					
0987-	00	BRK					
0988-	00	BRK					
0989-	00	BRK					
098A-	00	BRK					
098B-	00	BRK					
098C-	00	BRK					
098D-	00	BRK					
098E-	00	BRK					
098F-	00	BRK					
0990-	00	BRK					
0991-	00	BRK					
0992-	00	BRK					
0993-	00	BRK					
0994-	00	BRK					
0995-	00	BRK					
0996-	00	BRK					
0997-	00	BRK					
0998-	00	BRK					
0999-	00	BRK					
099A-	00	BRK					
099B-	00	BRK					
099C-	00	BRK					
099D-	00	BRK					
099E-	00	BRK					
099F-	00	BRK					
09A0-	00	BRK					

	09A1-	00	BRK					
	09A2-	00	BRK					
	09A3-	00	BRK					
	09A4-	00	BRK					
	09A5-	00	BRK					
	09A6-	00	BRK					
	09A7-	00	BRK					
	09A8-	00	BRK					
	09A9-	00	BRK					
	09AA-	00	BRK					
	09AB-	00	BRK					
	09AC-	00	BRK					
	09AD-	00	BRK					
	09AE-	00	BRK					
	09AF-	00	BRK					
	09B0-	00	BRK					
	09B1-	00	BRK					
	09B2-	00	BRK					
	09B3-	00	BRK					
	09B4-	00	BRK					
	09B5-	00	BRK					
	09B6-	00	BRK					
	09B7-	00	BRK					
	09B8-	00	BRK					
	09B9-	00	BRK					
	09BA-	00	BRK					
	09BB-	00	BRK					
	09BC-	00	BRK					
	09BD-	00	BRK					
	09BE-	00	BRK					
	09BF-	00	BRK					
	09C0-	00	BRK					
	09C1-	00	BRK					
	09C2-	00	BRK					
	09C3-	00	BRK					
	09C4-	00	BRK					
	09C5-	00	BRK					
	09C6-	00	BRK					
	09C7-	00	BRK					
	09C8-	00	BRK					
	09C9-	00	BRK					
	09CA-	00	BRK					
	09CB-	00	BRK					
	09CC-	00	BRK					
	09CD-	00	BRK					
	09CE-	00	BRK					
	09CF-	00	BRK					
	09D0-	00	BRK					
	09D1-	00	BRK					
	09D2-	00	BRK					
	09D3-	00	BRK					
	09D4-	00	BRK					
	09D5-	00	BRK					
	09D6-	00	BRK					
	09D7-	00	BRK					
	09D8-	00	BRK					
	09D9-	00	BRK					

	09DA-	00	BRK					
	09DB-	00	BRK					
	09DC-	00	BRK					
	09DD-	00	BRK					
	09DE-	00	BRK					
	09DF-	00	BRK					
	09E0-	00	BRK					
	09E1-	00	BRK					
	09E2-	00	BRK					
	09E3-	00	BRK					
	09E4-	00	BRK					
	09E5-	00	BRK					
	09E6-	00	BRK					
	09E7-	00	BRK					
	09E8-	00	BRK					
	09E9-	00	BRK					
	09EA-	00	BRK					
	09EB-	00	BRK					
	09EC-	00	BRK					
	09ED-	00	BRK					
	[\$BFEE]							
	09EE-	EE BF			\$BFEE points to itself (!)			
	09F0-	F0 BF			\$BFF0 points to itself (!)			
		F0 BF						
		91 BC						
		91 BC						
		FC BF						
	09FA-	FF						
	[\$BFFB]							
	09FB-	00	BRK		\$BFFB first p-code executed by heartbeat			
	09FC-	00	BRK					
	09FD-	CD 01 01	CMP	\$0101	\$CD = CALL EXTERNAL PROCEDURE 1,1			

Updated June 8, 2015				Note: "(*\$I WIZ..." messes up line numbering in Pascal.			
2	1	1:D	1	(* \$L PRINTER: *)			
3	1	1:D	1	(* "\$S++" OPTION BEFORE "\$L" *)			
4	1	1:D	1	(* \$R-*)			
5	1	1:D	1	(* \$I-*)			
6	1	1:D	1	(* \$V-*)			
7	1	1:D	1				
8	1	1:D	1	(*			
9	1	1:D	1	WIZARDRY IV, SYSTEM.PASCAL			
10	1	1:D	1	REVERSE ENGINEERED BY: THOMAS WILLIAM EWERS, 2014-2015			
11	1	1:D	1	*)			
12	1	1:D	1				
13	1	1:D	1	PROGRAM WIZARDRY;			
14	1	1:D	3				
15	1	1:D	3				
16	1	1:D	3	CONST			
17	1	1:D	3	DRIVE1 = 4;			
18	1	1:D	3	CRETURN = 13;			
19	1	1:D	3	ESCAPE = 27;			
20	1	1:D	3				
21	1	1:D	3	TYPE			
22	1	1:D	3	PINT = ^INTEGER;			
23	1	1:D	3	TLONGSTR = STRING[255];			
24	1	1:D	3				
25	1	1:D	3	TCHARSTR = STRING[1];			
26	1	1:D	3				
27	1	1:D	3	TBUFFER = PACKED ARRAY[0..1023] OF 0..255;			
28	1	1:D	3				
29	1	1:D	3	TWIZLONG = RECORD			
30	1	1:D	3	LOW : INTEGER;			
31	1	1:D	3	MID : INTEGER;			
32	1	1:D	3	HIGH : INTEGER;			
33	1	1:D	3	END;			
34	1	1:D	3				
35	1	1:D	3	TRACE = (NORACE, HUMAN, ELF, DWARF, GNOME, HOBBIT);			
36	1	1:D	3				
37	1	1:D	3	TCLASS = (FIGHTER, MAGE, PRIEST, THIEF,			
38	1	1:D	3	BISHOP, SAMURAI, LORD, NINJA);			
39	1	1:D	3				
40	1	1:D	3	TALIGN = (UNALIGN, GOOD, NEUTRAL, EVIL);			
41	1	1:D	3				
42	1	1:D	3	TSTATUS = (OK, AFRAID, ASLEEP, PLYZE,			
43	1	1:D	3	STONED, DEAD, ASHES, LOST);			
44	1	1:D	3				
45	1	1:D	3	TATTRIB = (STRENGTH, IQ, PIETY, VITALITY, AGILITY, LUCK);			
46	1	1:D	3				
47	1	1:D	3	TSPELL7G = ARRAY[1..7] OF INTEGER;			
48	1	1:D	3				
49	1	1:D	3	THPREC = RECORD			
50	1	1:D	3	LEVEL : INTEGER;			
51	1	1:D	3	HPFAC : INTEGER;			
52	1	1:D	3	HPMINAD : INTEGER;			
53	1	1:D	3	END;			
54	1	1:D	3				
55	1	1:D	3	TCHAR = RECORD			
56	1	1:D	3	NAME : STRING[15];		(* ^.0 *)	
57	1	1:D	3	PASSWORD : STRING[15];			

58	1	1:D	3	INMAZE	: BOOLEAN;			
59	1	1:D	3	RACE	: TRACE;			
60	1	1:D	3	CLASS	: TCLASS;			
61	1	1:D	3	AGE	: INTEGER;			
62	1	1:D	3	STATUS	: TSTATUS;			
63	1	1:D	3	ALIGN	: TALIGN;			
64	1	1:D	3	ATTRIB	: PACKED ARRAY[STRENGTH..LUCK] OF 0..18;			
65	1	1:D	3	LUCKSKIL	: PACKED ARRAY[0..4] OF 0..31;			
66	1	1:D	3	GOLD	: TWIZLONG;		(* ^.1A *)	
67	1	1:D	3	POSS	: RECORD		(* ^.1D *)	
68	1	1:D	3	POSSCNT	: INTEGER;			
69	1	1:D	3	POSSESS	: ARRAY[1..8] OF RECORD			
70	1	1:D	3	EQUIPED	: BOOLEAN;			
71	1	1:D	3	CURSED	: BOOLEAN;			
72	1	1:D	3	IDENTIF	: BOOLEAN;			
73	1	1:D	3	EQINDEX	: INTEGER;			
74	1	1:D	3	END;				
75	1	1:D	3	END;				
76	1	1:D	3	EXP	: TWIZLONG;		(* ^.3E *)	
77	1	1:D	3	MAXLEVAC	: INTEGER;			
78	1	1:D	3	CHARLEV	: INTEGER;			
79	1	1:D	3	HPLEFT	: INTEGER;		(* ^.43 *)	
80	1	1:D	3	HPMAX	: INTEGER;			
81	1	1:D	3	SPELLSKN	: PACKED ARRAY[0..49] OF BOOLEAN;			
82	1	1:D	3	MAGESP	: TSPELL7G;		(* ^.49 *)	
83	1	1:D	3	PRIESTSP	: TSPELL7G;		(* ??? *)	
84	1	1:D	3	HPCALCMD	: INTEGER;			
85	1	1:D	3	ARMORCL	: INTEGER;			
86	1	1:D	3	HEALPTS	: INTEGER;			
87	1	1:D	3	CRITHITM	: BOOLEAN;			
88	1	1:D	3	SWINGCNT	: INTEGER;		(* ^.5B *)	
89	1	1:D	3	HPDAMRC	: THPREC;			
90	1	1:D	3	WEPVSTY2	: PACKED ARRAY[0..1, 0..13] OF BOOLEAN;			
91	1	1:D	3	WEPVSTY3	: PACKED ARRAY[0..1, 0..6] OF BOOLEAN;			
92	1	1:D	3	WEPVSTYP	: PACKED ARRAY[0..13] OF BOOLEAN;			
93	1	1:D	3	LOSTXYL	: RECORD CASE INTEGER OF		(* ^.64 *)	
94	1	1:D	3	1:	(LOCATION : ARRAY[1..4] OF INTEGER);			
95	1	1:D	3	2:	(POISNAMT : ARRAY[1..4] OF INTEGER);			
96	1	1:D	3	3:	(AWARDS : ARRAY[1..4] OF INTEGER);			
97	1	1:D	3	END;				
98	1	1:D	3	END;				
99	1	1:D	3					
100	1	1:D	3		(* LOOKS LIKE TSCNTOC = RECORD; FROM WIZ III *)			
101	1	1:D	3		(* BASE47C, 484, 48C LOOK LIKE RECPER2B, RECPERDK, BLOFF (?) *)			
102	1	1:D	3	TSCENARI	= PACKED RECORD			
103	1	1:D	3	GAMENAME	: PACKED ARRAY[0..28] OF INTEGER;			
104	1	1:D	3	RECPERDK	: PACKED ARRAY[0..7] OF INTEGER;			
105	1	1:D	3	RECSIZE	: PACKED ARRAY[0..7] OF INTEGER;			
106	1	1:D	3	BLOFF	: PACKED ARRAY[0..7] OF INTEGER;		(* BASE48C *)	
107	1	1:D	3	Z	: PACKED ARRAY[0..129] OF INTEGER;			
108	1	1:D	3					
109	1	1:D	3	SPELLHSH	: PACKED ARRAY[0..50] OF INTEGER;		(* BASE516 *)	
110	1	1:D	3	Z3	: PACKED ARRAY[0..50] OF 0..7;		(* BASE549 *)	
111	1	1:D	3	Z4	: PACKED ARRAY[0..6] OF INTEGER;			
112	1	1:D	3	END;				
113	1	1:D	3					
114	1	1:D	3					

115	1	1:D	3	TOBJTYPE = (WEAPON, ARMOR, SHIELD, HELMET, GAUNTLET,			
116	1	1:D	3	SPECIAL, MISC);			
117	1	1:D	3				
118	1	1:D	3	TOBJREC = RECORD			
119	1	1:D	3	OBJTYPE : TOBJTYPE;			
120	1	1:D	3	ALIGN : TALIGN;			
121	1	1:D	3	CURSED : BOOLEAN;			
122	1	1:D	3	SPECIAL : INTEGER;			
123	1	1:D	3	CHANGETO : INTEGER;			
124	1	1:D	3	CHGCHANC : INTEGER;			
125	1	1:D	3	PRICE : TWIZLONG;			
126	1	1:D	3	BOLTACXX : INTEGER;			
127	1	1:D	3	SPELLPWR : INTEGER;			
128	1	1:D	3	CLASSUSE : PACKED ARRAY[TCLASS] OF BOOLEAN;			
129	1	1:D	3	HEALPTS : INTEGER;			
130	1	1:D	3	WEPVSTY2 : PACKED ARRAY[0..15] OF BOOLEAN;			
131	1	1:D	3	WEPVSTY3 : PACKED ARRAY[0..15] OF BOOLEAN;			
132	1	1:D	3	ARMORMOD : INTEGER;			
133	1	1:D	3	WEPHITMD : INTEGER;			
134	1	1:D	3	WEPHPDAM : THPREC;			
135	1	1:D	3	XTRASWNG : INTEGER;			
136	1	1:D	3	CRITHITM : BOOLEAN;			
137	1	1:D	3	WEPVSTYP : PACKED ARRAY[0..13] OF BOOLEAN;			
138	1	1:D	3	END;			
139	1	1:D	3				
140	1	1:D	3	TWALL = (OPEN, WALL, DOOR, HIDEEDOOR);			
141	1	1:D	3				
142	1	1:D	3	TSQUARE = (NORMAL, STAIRS, PIT, CHUTE, SPINNER, DARK, TRANSFER,			
143	1	1:D	3	OUCHY, BUTTONZ, ROCKWATE, FIZZLE, SCNMSG, ENCOUNTE);			
144	1	1:D	3				
145	1	1:D	3	TMAZE = RECORD			
146	1	1:D	3	W : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF TWALL;			
147	1	1:D	3	S : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF TWALL;			
148	1	1:D	3	E : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF TWALL;			
149	1	1:D	3	N : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF TWALL;			
150	1	1:D	3				
151	1	1:D	3	FIGHTS : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF 0..1;			
152	1	1:D	3				
153	1	1:D	3	SQREXTRA : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF 0..15;			
154	1	1:D	3				
155	1	1:D	3	SQRETYPE : PACKED ARRAY[0..15] OF TSQUARE;			
156	1	1:D	3				
157	1	1:D	3	AUX0 : PACKED ARRAY[0..15] OF INTEGER;			
158	1	1:D	3	AUX1 : PACKED ARRAY[0..15] OF INTEGER;			
159	1	1:D	3	AUX2 : PACKED ARRAY[0..15] OF INTEGER;			
160	1	1:D	3				
161	1	1:D	3	ENMYCALC : PACKED ARRAY[1..3] OF RECORD			
162	1	1:D	3	MINENEMY : INTEGER;			
163	1	1:D	3	MULTWORS : INTEGER;			
164	1	1:D	3	WORSE01 : INTEGER;			
165	1	1:D	3	RANGE0N : INTEGER;			
166	1	1:D	3	PERCWORS : INTEGER;			
167	1	1:D	3	END;			
168	1	1:D	3	END;			
169	1	1:D	3				
170	1	1:D	3				
171	1	1:D	3	TMEMORYP = ^TMEMORY;			

172	1	1:D	3				
173	1	1:D	3	TMEMORY = PACKED RECORD			
174	1	1:D	3	NEXT : TMEMORYP;			
175	1	1:D	3	SIZE : 0..32767;			
176	1	1:D	3	INUSE : BOOLEAN;			
177	1	1:D	3	END;			
178	1	1:D	3				
179	1	1:D	3	TCACHEP = ^TCACHE;			
180	1	1:D	3				
181	1	1:D	3	TCACHE = RECORD			
182	1	1:D	3	KEY : INTEGER; (* DISK ADDR, OR MSG # *)			
183	1	1:D	3	FORWRD : TCACHEP;			
184	1	1:D	3	BACKWRD : TCACHEP;			
185	1	1:D	3	DATA : TLONGSTR;			
186	1	1:D	3	END;			
187	1	1:D	3				
188	1	1:D	3	TWINDOWP = ^TWINDOW;			
189	1	1:D	3				
190	1	1:D	3	TARR = ARRAY[0..0] OF INTEGER;			
191	1	1:D	3	TARRP = ^TARR;			
192	1	1:D	3				
193	1	1:D	3	TMEMOVER = RECORD CASE INTEGER OF			
194	1	1:D	3	1: (I: INTEGER);			
195	1	1:D	3	2: (PWIN: TWINDOWP);			
196	1	1:D	3	3: (PMEM: TMEMORYP);			
197	1	1:D	3	4: (PCACHE: TCACHEP);			
198	1	1:D	3	5: (PARR: TARRP);			
199	1	1:D	3	END;			
200	1	1:D	3				
201	1	1:D	3	TWINHEAD = PACKED RECORD			
202	1	1:D	3	NEXTW : TWINDOWP;			
203	1	1:D	3	HPOS : 0..255;			
204	1	1:D	3	VPOS : 0..255;			
205	1	1:D	3	HSIZE : 0..255;			
206	1	1:D	3	VSIZE : 0..255;			
207	1	1:D	3	HCURSOR : 0..255;			
208	1	1:D	3	VCURSOR : 0..255;			
209	1	1:D	3	PRIORITY: 0..255;			
210	1	1:D	3	TEMP : 0..255;			
211	1	1:D	3	END;			
212	1	1:D	3				
213	1	1:D	3	TWINDOW = PACKED RECORD			
214	1	1:D	3	HEAD : TWINHEAD;			
215	1	1:D	3	DATA : PACKED ARRAY[0..719] OF CHAR;			
216	1	1:D	3	END;			
217	1	1:D	3				
218	1	1:D	3	TBCD = ARRAY[0..13] OF INTEGER;			
219	1	1:D	3				
220	1	1:D	3	DIRENTRY = RECORD			
221	1	1:D	3	FIRSTBLK : INTEGER;			
222	1	1:D	3	LASTBLK : INTEGER;			
223	1	1:D	3	FILEKIND : PACKED RECORD			
224	1	1:D	3	FT : (VOLHEAD, BADBLK, MACH6502, TEXT, DEBUG,			
225	1	1:D	3	DATA, GRAFFILE, FOTOFIL, SUBDIR);			
226	1	1:D	3	END;			
227	1	1:D	3	FILENAME : STRING[7];			
228	1	1:D	3	VOLLB : INTEGER;			

229	1	1:D	3	FILECNT	: INTEGER;			
230	1	1:D	3	LOADTIM	: INTEGER;			
231	1	1:D	3	BOOTDATE	: INTEGER;			
232	1	1:D	3	RES1	: INTEGER;			
233	1	1:D	3	RES2	: INTEGER;			
234	1	1:D	3	END;				
235	1	1:D	3					
236	1	1:D	3	VAR				
237	1	1:D	3	INCHAR	: CHAR;			
238	1	1:D	4	BASE04	: INTEGER;			
239	1	1:D	5	DIRECTIO	: INTEGER;			
240	1	1:D	6	MAZELEV	: INTEGER;	(* BASE06 *)		
241	1	1:D	7	MAZEY	: INTEGER;			
242	1	1:D	8	MAZEX	: INTEGER;			
243	1	1:D	9	BASE09	: INTEGER;			
244	1	1:D	10	CHARSWIN	: TWINDOWP;			
245	1	1:D	11	CAMPTIT	: TWINDOWP;			
246	1	1:D	12	BASE0C	: PINT;			
247	1	1:D	13	BASE0D	: PINT;			
248	1	1:D	14	WINCHAIN	: TWINDOWP;	(* BASE0E *)		
249	1	1:D	15	CAMPWIN	: TWINDOWP;			
250	1	1:D	16	BASE10	: TWINDOWP;			
251	1	1:D	17	MAINWIN	: TWINDOWP;			
252	1	1:D	18	BASE12	: INTEGER;			
253	1	1:D	19					
254	1	1:D	19	BASE13	: INTEGER;			
255	1	1:D	20	BASE14	: INTEGER;			
256	1	1:D	21	ONECACBL	: BOOLEAN;			
257	1	1:D	22	CACHEWRI	: BOOLEAN;			
258	1	1:D	23	DOGARBMM	: BOOLEAN;			
259	1	1:D	24					
260	1	1:D	24	BASE18	: RECORD CASE INTEGER OF			
261	1	1:D	24		1: (B: BOOLEAN);			
262	1	1:D	24		2: (I: INTEGER);			
263	1	1:D	24	END;				
264	1	1:D	25					
265	1	1:D	25	INFOWOFF	: RECORD CASE INTEGER OF	(* BASE19 *)		
266	1	1:D	25		1: (B: BOOLEAN);			
267	1	1:D	25		2: (I: INTEGER);			
268	1	1:D	25	END;				
269	1	1:D	26					
270	1	1:D	26	CACHEBL	: INTEGER;	(* BASE1A *)		
271	1	1:D	27	KANABLCK	: INTEGER;	(* BASE1B *)		
272	1	1:D	28	ASCIKBL	: INTEGER;			
273	1	1:D	29	SCENBLK	: INTEGER;			
274	1	1:D	30	TIMEDLAY	: INTEGER;			
275	1	1:D	31	ATTK012	: INTEGER;	(* BASE1F *)		
276	1	1:D	32	FIZZLES	: INTEGER;	(* BASE20 *)		
277	1	1:D	33	CHSTALRM	: INTEGER;			
278	1	1:D	34	IDMONSTR	: INTEGER;	(* BASE22 *)		
279	1	1:D	35	LIGHT	: INTEGER;	(* BASE23 *)		
280	1	1:D	36	ACMOD2	: INTEGER;	(* BASE24	PROTECT *)	
281	1	1:D	37	BASE25	: INTEGER;			
282	1	1:D	38	BASE26	: INTEGER;			
283	1	1:D	39	BASE27	: INTEGER;			
284	1	1:D	40	SAVELEV	: INTEGER;	(* BASE28 *)		
285	1	1:D	41	SAVEY	: INTEGER;			

286	1	1:D	42	SAVEX	: INTEGER;				
287	1	1:D	43	BASE2B	: INTEGER;				
288	1	1:D	44	MEMHEAD	: ^TMEMORY;	(* BASE2C *)			
289	1	1:D	45	BASE2D	: INTEGER;				
290	1	1:D	46	HFBLKCNT	: INTEGER;	(* HUFF BLOCK CNT (LESS 1) *)			
291	1	1:D	47	HUFFBLK	: INTEGER;				
292	1	1:D	48	ASCIHSH	: TMEOVER;				
293	1	1:D	49	MSGCACHL	: TCACHEP;	(* BASE31 *)			
294	1	1:D	50	MSGCACHF	: TCACHEP;				
295	1	1:D	51	DSKCACHL	: TCACHEP;	(* BASE33 *)			
296	1	1:D	52	DSKCACHF	: TCACHEP;				
297	1	1:D	53						
298	1	1:D	53	BASE35	: INTEGER;				
299	1	1:D	54	BASE36	: BOOLEAN;				
300	1	1:D	55	BASE37	: BOOLEAN;				
301	1	1:D	56	BASE38	: ARRAY[0..6] OF INTEGER;				
302	1	1:D	63						
303	1	1:D	63	BASE3F	: ARRAY[0..2] OF INTEGER;				
304	1	1:D	66	BASE42	: ARRAY[0..2] OF INTEGER;				
305	1	1:D	69						
306	1	1:D	69	BASE45	: INTEGER;				
307	1	1:D	70	BASE46	: INTEGER;				
308	1	1:D	71						
309	1	1:D	71	BASE47	: TLONGSTR;	(* BASE47 *)			
310	1	1:D	199	BASEC7	: TLONGSTR;	(* BASEC7 *)			
311	1	1:D	327						
312	1	1:D	327						
313	1	1:D	327	BASE147	: ARRAY[0..2] OF STRING[15];				
314	1	1:D	351						
315	1	1:D	351	(* BASE14A	: ARRAY[0..39] OF INTEGER; *)				
316	1	1:D	351						
317	1	1:D	351	FIGHTMAP	: PACKED ARRAY[0..19, 0..19] OF BOOLEAN;	(* BASE15F *)			
318	1	1:D	391	(* BASEXXX	: ARRAY[0..19] OF INTEGER; *)				
319	1	1:D	391						
320	1	1:D	391	CHARACTR	: ARRAY[0..6] OF TCHAR;				
321	1	1:D	1119						
322	1	1:D	1119						
323	1	1:D	1119	SCENARIO	: TSCENARI;				
324	1	1:D	1371						
325	1	1:D	1371	BASE55B	: PACKED ARRAY[0..1023] OF 0..255;				
326	1	1:D	1883						
327	1	1:D	1883	BASE75B	: TLONGSTR;	(* NOT SURE IF STRING OR RECORD (?) *)			
328	1	1:D	2011			(* AND DEFINITELY NOT SURE SIZE (?) *)			
329	1	1:D	2011						
330	1	1:D	2011	BASE7DB	: PACKED ARRAY[0..15] OF BOOLEAN;				
331	1	1:D	2012	BASE7DC	: ARRAY[0..4] OF INTEGER;				
332	1	1:D	2017	BLACKBOX	: ARRAY[0..18] OF INTEGER;	(* BASE7E1 *)			
333	1	1:D	2036	BASE7F4	: ARRAY[0..18] OF INTEGER;				
334	1	1:D	2055						
335	1	1:D	2055	TREBORY	: INTEGER;	(* BASE807 *)			
336	1	1:D	2056	TREBORX	: INTEGER;	(* BASE808 *)			
337	1	1:D	2057	CHGMSGP2	: INTEGER;	(* CHANGE MESSAGE POWER OF 2 FOR TREBOR *)			
338	1	1:D	2058	TREBMSG	: INTEGER;				
339	1	1:D	2059	BASE80B	: INTEGER;				
340	1	1:D	2060						
341	1	1:D	2060	BRELOC	: BOOLEAN;	(* BASE80C *)			
342	1	1:D	2061	BASCIHU	: BOOLEAN;				

343	1	1:D	2062	BSTROPS	: BOOLEAN;				
344	1	1:D	2063	BLINES24	: BOOLEAN;				
345	1	1:D	2064	BCACHE	: BOOLEAN;				
346	1	1:D	2065	BAPPLE	: BOOLEAN; (* BASE811 *)				
347	1	1:D	2066	BKRNSRCH	: BOOLEAN;				
348	1	1:D	2067	MAZEBLCK	: INTEGER;				
349	1	1:D	2068						
350	1	1:D	2068	BASE814	: PACKED ARRAY[0..511] OF 0..7;				
351	1	1:D	2171	BASE87B	: PACKED ARRAY[0..511] OF BOOLEAN;				
352	1	1:D	2203						
353	1	1:D	2203	BASE89B	: STRING; (* COMPLETE GUESSING *)				
354	1	1:D	2244						
355	1	1:D	2244	PADDING	: ARRAY[1..87] OF INTEGER;				
356	1	1:D	2331						
357	1	1:D	2331						
358	1	2:D	1	PROCEDURE PRINTBEL;	FORWARD;				(* P010002 *)
359	1	2:D	1						
360	1	3:D	3	FUNCTION GETADDR(VAR A:STRING)	: INTEGER; FORWARD;				(* P010003 *)
361	1	3:D	4						
362	1	4:D	3	FUNCTION GETREC(DATATYPE : INTEGER;					(* P010004 *)
363	1	4:D	4		DATAINDX : INTEGER;				
364	1	4:D	5		DATASIZE : INTEGER) : INTEGER; FORWARD;				
365	1	4:D	6						
366	1	5:D	3	FUNCTION GETRECW(DATATYPE : INTEGER;					(* P010005 *)
367	1	5:D	4		DATAINDX : INTEGER;				
368	1	5:D	5		DATASIZE : INTEGER) : INTEGER; FORWARD;				
369	1	5:D	6						
370	1	6:D	1	PROCEDURE ADDLONGS(VAR FIRST : TWIZLONG;					(* P010006 *)
371	1	6:D	2		VAR SECOND : TWIZLONG); FORWARD;				
372	1	6:D	3						
373	1	7:D	1	PROCEDURE SUBLONGS(VAR FIRST : TWIZLONG;					(* P010007 *)
374	1	7:D	2		VAR SECOND : TWIZLONG); FORWARD;				
375	1	7:D	3						
376	1	8:D	1	PROCEDURE MULTLONG(VAR LONGNUM : TWIZLONG;					(* P010008 *)
377	1	8:D	2		VAR INTNUM : INTEGER); FORWARD;				
378	1	8:D	3						
379	1	9:D	1	PROCEDURE DIVLONG(VAR LONGNUM : TWIZLONG;					(* P010009 *)
380	1	9:D	2		VAR INTNUM : INTEGER); FORWARD;				
381	1	9:D	3						
382	1	10:D	3	FUNCTION TESTLONG(FIRST : TWIZLONG;					(* P01000A *)
383	1	10:D	4		SECOND : TWIZLONG) : INTEGER; FORWARD;				
384	1	10:D	11						
385	1	11:D	1	PROCEDURE PRNTLONG(PRNTWIN : TWINDOWP;					(* P01000B *)
386	1	11:D	2		LONGNUM : TWIZLONG); FORWARD;				
387	1	11:D	6						
388	1	12:D	1	PROCEDURE GETKEY; FORWARD;					(* P01000C *)
389	1	13:D	1	PROCEDURE GETCR; FORWARD;					(* P01000D *)
390	1	14:D	1	PROCEDURE CENTSTR(MP02: TWINDOWP;					(* P01000E *)
391	1	14:D	2		MP01: TLONGSTR); FORWARD;				
392	1	14:D	131						
393	1	15:D	1	PROCEDURE PAUSE1; FORWARD;					(* P01000F *)
394	1	15:D	1						
395	1	16:D	1	PROCEDURE PAUSE2; FORWARD;					(* P010010 *)
396	1	16:D	1						
397	1	17:D	3	FUNCTION GETWIN(HPOS: INTEGER;					(* P010011 *)
398	1	17:D	4		VPOS: INTEGER;				
399	1	17:D	5		HSIZE: INTEGER;				

400	1	17:D	6	VSIZE: INTEGER;			
401	1	17:D	7	PRIORITY: INTEGER;			
402	1	17:D	8	SHOW: BOOLEAN) : TWINDOWP; FORWARD;			
403	1	17:D	9				
404	1	18:D	1	PROCEDURE DELWIN(VAR WIN2DEL : TWINDOWP;		(* P010012 *)	
405	1	18:D	2	REDRAW : BOOLEAN); FORWARD;			
406	1	18:D	3				
407	1	19:D	1	PROCEDURE SETWNPRI(PRIWIN : TWINDOWP;		(* P010013 *)	
408	1	19:D	2	PRIORITY : INTEGER;			
409	1	19:D	3	REDRAW : BOOLEAN); FORWARD;			
410	1	19:D	4				
411	1	20:D	1	PROCEDURE MVCURSOR(MVWIN: TWINDOWP;		(* P010014 *)	
412	1	20:D	2	HPOS: INTEGER;			
413	1	20:D	3	VPOS: INTEGER); FORWARD;			
414	1	20:D	4				
415	1	21:D	1	PROCEDURE PRINTNUM(PRWIN : TWINDOWP;		(* P010015 *)	
416	1	21:D	2	NUM : INTEGER;			
417	1	21:D	3	FIELDSZ : INTEGER); FORWARD;			
418	1	21:D	4				
419	1	22:D	1	PROCEDURE PRINTCR(MP01 : TWINDOWP); FORWARD;		(* P010016 *)	
420	1	22:D	2				
421	1	23:D	1	PROCEDURE CLEARWIN(MP02 : TWINDOWP;		(* P010017 *)	
422	1	23:D	2	MP01 : BOOLEAN); FORWARD;			
423	1	23:D	3				
424	1	24:D	1	PROCEDURE CLRRECT(CLRWIN : TWINDOWP;		(* P010018 *)	
425	1	24:D	2	HOR1 : INTEGER;			
426	1	24:D	3	VER1 : INTEGER;			
427	1	24:D	4	HOR2 : INTEGER;			
428	1	24:D	5	VER2 : INTEGER); FORWARD;			
429	1	24:D	6				
430	1	25:D	1	PROCEDURE PROTWIN(PROTWIN : TWINDOWP;		(* P010019 *)	
431	1	25:D	2	REDRAW : BOOLEAN); FORWARD;			
432	1	25:D	3				
433	1	26:D	1	PROCEDURE UNPROWIN(MP02 : TWINDOWP;		(* P01001A *)	
434	1	26:D	2	MP01 : BOOLEAN); FORWARD;			
435	1	26:D	3				
436	1	27:D	1	PROCEDURE SOLICIT(PRWIN : TWINDOWP;		(* P01001B *)	
437	1	27:D	2	VAR REPLYSTR : TLONGSTR;			
438	1	27:D	3	MAXSTR : INTEGER); FORWARD;			
439	1	27:D	4				
440	1	28:D	3	FUNCTION MENU(MENUWIN : TWINDOWP;		(* P01001C *)	
441	1	28:D	4	MENUSTR : TLONGSTR) : INTEGER; FORWARD;			
442	1	28:D	133				
443	1	29:D	1	PROCEDURE P01001D(VAR MP02 : TLONGSTR;		(* P01001D *)	
444	1	29:D	2	MP01 : INTEGER); FORWARD;			
445	1	29:D	3				
446	1	30:D	3	FUNCTION P01001E(MP03 : INTEGER) : INTEGER; FORWARD;			
447	1	30:D	4				
448	1	31:D	3	FUNCTION KEYPRESS : BOOLEAN; FORWARD;		(* P01001F *)	
449	1	31:D	3				
450	1	32:D	3	FUNCTION RAND : INTEGER; FORWARD;		(* P010020 *)	
451	1	32:D	3				
452	1	33:D	1	PROCEDURE PRPICCH(MYWIN : TWINDOWP;		(* P010021 *)	
453	1	33:D	2	MYCHAR : CHAR); FORWARD;			
454	1	33:D	3				
455	1	34:D	1	PROCEDURE PRPICMB(MYWIN : TWINDOWP;		(* P010022 *)	
456	1	34:D	2	MYMBCH : TLONGSTR); FORWARD;			

457	1	34:D	131						
458	1	35:D	1	PROCEDURE	DRAWSR2(UNUSED : TWINDOWP);	FORWARD;		(* P010023 *)	
459	1	35:D	2						
460	1	36:D	1	PROCEDURE	GETMSGTX(VAR MSGSTR : TLONGSTR;			(* P010024 *)	
461	1	36:D	2		MSGNUM : INTEGER);	FORWARD;			
462	1	36:D	3						
463	1	37:D	1	PROCEDURE	DISP1MSGP(MSGWIN : TWINDOWP;			(* P010025 *)	
464	1	37:D	2		MSGNUM : INTEGER);	FORWARD;			
465	1	37:D	3						
466	1	38:D	1	PROCEDURE	DISP1LIN(MSGWIN : TWINDOWP;				
467	1	38:D	2		MSGNUM : INTEGER);	FORWARD;			
468	1	38:D	3						
469	1	39:D	3	FUNCTION	MENUINDX(MP04 : TWINDOWP;			(* P010027 *)	
470	1	39:D	4		MP03 : INTEGER) : INTEGER;	FORWARD;			
471	1	39:D	5						
472	1	40:D	3	FUNCTION	MBSTRLEN(MP01 : TLONGSTR) : INTEGER ;	FORWARD;		(* P010028 *)	
473	1	40:D	132						
474	1	41:D	3	FUNCTION	GTTITWIN(MSGINDX : INTEGER;			(* P010029 *)	
475	1	41:D	4		VPOS : INTEGER;				
476	1	41:D	5		VSIZE : INTEGER;				
477	1	41:D	6		PRIORITY : INTEGER) : TWINDOWP;	FORWARD;			
478	1	41:D	7						
479	1	42:D	1	PROCEDURE	POOLGOLD(CHARI : INTEGER);	FORWARD;		(* P01002A *)	
480	1	42:D	2						
481	1	43:D	1	PROCEDURE	PCONCAT(VAR A: STRING; B: TLONGSTR);	FORWARD;		(* P01002B *)	
482	1	43:D	131						
483	1	44:D	1	PROCEDURE	PCONCAT2(VAR MP03 : TLONGSTR;			(* P01002C *)	
484	1	44:D	2		MP02 : TLONGSTR;				
485	1	44:D	3		MP01 : TLONGSTR);	FORWARD;			
486	1	44:D	260						
487	1	45:D	1	PROCEDURE	PCONCAT3(VAR MP04 : TLONGSTR;			(* P01002D *)	
488	1	45:D	2		MP03 : TLONGSTR;				
489	1	45:D	3		MP02 : TLONGSTR;				
490	1	45:D	4		MP01 : TLONGSTR);	FORWARD;			
491	1	45:D	389						
492	1	46:D	1	PROCEDURE	COPYSTR(VAR DEST : TLONGSTR;			(* P01002E *)	
493	1	46:D	2		SRC : TLONGSTR;				
494	1	46:D	3		FIRST : INTEGER;				
495	1	46:D	4		COUNT : INTEGER);	FORWARD;			
496	1	46:D	133						
497	1	47:D	3	FUNCTION	P01002F(MP04 : TLONGSTR;				
498	1	47:D	4		MP03 : TLONGSTR) : INTEGER;	FORWARD;			
499	1	47:D	261						
500	1	48:D	3	FUNCTION	POS(SUBSTR : TLONGSTR;			(* P010030 *)	
501	1	48:D	4		BIGSTR : TLONGSTR) : INTEGER;	FORWARD;			
502	1	48:D	261						
503	1	49:D	1	PROCEDURE	INT2STR(ININT : INTEGER;			(* P010031 *)	
504	1	49:D	2		VAR OUTSTR : TLONGSTR);	FORWARD;			
505	1	49:D	3						
506	1	50:D	1	PROCEDURE	P010032(MP02 : TWIZLONG;				
507	1	50:D	2		VAR MP01 : TLONGSTR);	FORWARD;			
508	1	50:D	6						
509	1	51:D	3	FUNCTION	GTLNGSUB(MENUSTR : TLONGSTR) : INTEGER;	FORWARD;			
510	1	51:D	132					(* P010033 *)	
511	1	51:D	132						
512	1	52:D	3	FUNCTION	GREATER(NUM1 : INTEGER;			(* P010034 *)	
513	1	52:D	4		NUM2 : INTEGER) : INTEGER;	FORWARD;			

514	1	52:D	5						
515	1	53:D	3	FUNCTION GETWIN2(MBHORSIZ : INTEGER;	(* P010035 *)				
516	1	53:D	4	VPOS : INTEGER;					
517	1	53:D	5	VSIZE : INTEGER;					
518	1	53:D	6	PRIORITY : INTEGER;					
519	1	53:D	7	SHOW : BOOLEAN) : TWINDOWP; FORWARD;					
520	1	53:D	8						
521	1	54:D	1	PROCEDURE INSERT2(VAR INSERTX : TLONGSTR;	(* P010036 *)				
522	1	54:D	2	VAR WHOLESTR : TLONGSTR;					
523	1	54:D	3	INSERTCH : TCHARSTR); FORWARD;					
524	1	54:D	5						
525	1	55:D	1	PROCEDURE INSERTST(VAR INSERTX : TLONGSTR;	(* P010037 *)				
526	1	55:D	2	VAR WHOLESTR : TLONGSTR); FORWARD;					
527	1	55:D	3						
528	1	56:D	1	PROCEDURE BEEPSPKR(MP01 : INTEGER); FORWARD;	(* P010038 *)				
529	1	56:D	2						
530	1	57:D	1	PROCEDURE P010039(MP06 : TLONGSTR;	(* P010039 *)				
531	1	57:D	2	MP05 : INTEGER;					
532	1	57:D	3	MP04 : INTEGER;					
533	1	57:D	4	MP03 : INTEGER;					
534	1	57:D	5	MP02 : INTEGER;					
535	1	57:D	6	MP01 : INTEGER); FORWARD;					
536	1	57:D	135						
537	1	58:D	1	PROCEDURE P01003A(MP01 : TLONGSTR); FORWARD;	(* P01003A *)				
538	1	58:D	130						
539	1	58:D	130						
540	1	59:D	3	FUNCTION FINDFILE(DRIVE : INTEGER;	(* P01003B *)				
541	1	59:D	4	FILENM : STRING) : INTEGER; FORWARD;					
542	1	59:D	46						
543	1	59:D	46						
544	1	59:D	46	(* ===== SEGMENTS ===== *)					
545	1	59:D	46						
546	7	1:D	1	SEGMENT PROCEDURE P010101;					
547	7	1:0	0	BEGIN					
548	7	1:0	0	END;					
549	7	1:0	12						
550	8	1:D	1	SEGMENT PROCEDURE P010201;					
551	8	1:0	0	BEGIN					
552	8	1:0	0	END;					
553	8	1:0	12						
554	9	1:D	1	SEGMENT PROCEDURE P010301;					
555	9	1:0	0	BEGIN					
556	9	1:0	0	END;					
557	9	1:0	12						
558	10	1:D	1	SEGMENT PROCEDURE P010401;					
559	10	1:0	0	BEGIN					
560	10	1:0	0	END;					
561	10	1:0	12						
562	11	1:D	1	SEGMENT PROCEDURE P010501;					
563	11	1:0	0	BEGIN					
564	11	1:0	0	END;					
565	11	1:0	12						
565	11	1:0	12	(* \$I WIZ4B:KANJIREA *)					
566	11	1:0	12						
567	11	1:0	12						
568	12	1:D	1	SEGMENT PROCEDURE KANJIREA(KANMP03: TWINDOWP;	(* P010601 *)				
569	12	1:D	2	VAR KANMP02: STRING;					

	570	12	1:D	3		KANMP01: INTEGER);		
	571	12	1:D	4				
	572	12	1:D	4		(* NIL, BASE47, BASE09 *)		
	573	12	1:D	4		(* ??????, 0 *)		
	574	12	1:D	4				
	575	12	1:D	4	VAR			
	576	12	1:D	4		KANMP04 : PACKED ARRAY[0..15] OF BOOLEAN;		
	577	12	1:D	5		(*		
	578	12	1:D	5		00 = ASCII.KRN		
	579	12	1:D	5		01 = KANA.KRN		
	580	12	1:D	5		02 = KANJI.KRN		
	581	12	1:D	5				
	582	12	1:D	5		04 = 200.CHARSET		
	583	12	1:D	5		05 = 200.MONSTERS		
	584	12	1:D	5		*)		
	585	12	1:D	5				
	586	12	1:D	5				
	587	12	2:D	3		FUNCTION WRITEPRO : BOOLEAN; (* P010602 *)		
	588	12	2:D	3				
	589	12	2:D	3	VAR			
	590	12	2:D	3		MP03 : INTEGER;		
	591	12	2:D	4		MP04 : INTEGER;		
	592	12	2:D	5		MP05 : INTEGER;		
	593	12	2:D	6		MP06 : PACKED ARRAY[0..511] OF CHAR;		
	594	12	2:D	262		MP106 : INTEGER;		
	595	12	2:D	263				
	596	12	2:0	0	BEGIN			
	597	12	2:1	0		UNITREAD(DRIVE1, MP06, 512, 0);		
	598	12	2:1	11		MP106 := ORD(MP06[0]);		
	599	12	2:1	18		IF MP106 <> 255 THEN		
	600	12	2:2	27		MP06[0] := CHR(MP106 + 1)		
	601	12	2:1	35		ELSE		
	602	12	2:2	38		MP06[0] := CHR(0);		
	603	12	2:1	43		UNITWRITE(DRIVE1, MP06, 512, 0);		
	604	12	2:1	54		UNITREAD(DRIVE1, MP06, 512, 0);		
	605	12	2:1	65		WRITEPRO := ORD(MP06[0]) = MP106;		
	606	12	2:1	75		MP06[0] := CHR(MP106);		
	607	12	2:1	82		UNITWRITE(DRIVE1, MP06, 512, 0)		
	608	12	2:0	93		END;		
	609	12	2:0	106				
	610	12	2:0	106				
	611	12	3:D	1		PROCEDURE P010603;		
	612	12	3:D	1				
	613	12	3:0	0		BEGIN		
	614	12	3:1	0		EXIT(WIZARDRY)		
	615	12	3:0	4		END;		
	616	12	3:0	16				
	617	12	3:0	16				
	618	12	4:D	1		PROCEDURE GARBMEM; (* P010604 *)		
	619	12	4:D	1				
	620	12	4:D	1	VAR			
	621	12	4:D	1		CHAIN2 : ^TMEMORY;		
	622	12	4:D	2		B4NOTINU : ^TMEMORY;		
	623	12	4:D	3		CHAINPTR : ^TMEMORY;		
	624	12	4:D	4				
	625	12	4:D	4				
	626	12	4:0	0		BEGIN		

627	12	4:1	0	DOGARBMM := FALSE;			
628	12	4:1	3	CHAINPTR := MEMHEAD;			
629	12	4:1	7	B4NOTINU := NIL;			
630	12	4:1	10	WHILE CHAINPTR <> NIL DO			
631	12	4:2	15	BEGIN			
632	12	4:3	15	IF NOT CHAINPTR^.INUSE THEN			
633	12	4:4	24	BEGIN			
634	12	4:5	24	IF CHAINPTR^.NEXT <> NIL THEN			
635	12	4:6	30	BEGIN			
636	12	4:7	30	CHAIN2 := CHAINPTR^.NEXT;			
637	12	4:7	34	WHILE (CHAIN2 <> NIL) AND (NOT CHAIN2^.INUSE) DO			
638	12	4:8	47	BEGIN			
639	12	4:9	47	CHAINPTR^.NEXT := CHAIN2^.NEXT;			
640	12	4:9	51	CHAINPTR^.SIZE := CHAINPTR^.SIZE + CHAIN2^.SIZE;			
641	12	4:9	70	CHAIN2 := CHAIN2^.NEXT			
642	12	4:8	71	END			
643	12	4:6	74	END;			
644	12	4:5	76	IF CHAINPTR^.NEXT = NIL THEN			
645	12	4:6	82	BEGIN			
646	12	4:7	82	IF B4NOTINU = NIL THEN			
647	12	4:8	87	MEMHEAD := NIL			
648	12	4:7	87	ELSE			
649	12	4:8	92	B4NOTINU^.NEXT := NIL;			
650	12	4:7	95	RELEASE (CHAINPTR)			
651	12	4:6	97	END			
652	12	4:4	99	END;			
653	12	4:3	99	B4NOTINU := CHAINPTR;			
654	12	4:3	102	CHAINPTR := CHAINPTR^.NEXT			
655	12	4:2	103	END;			
656	12	4:0	108	END;			
657	12	4:0	124				
658	12	4:0	124				
659	12	5:D	3	FUNCTION GETMEM(MEMSIZE: INTEGER) : TWINDOWP; (* P010605 *)			
660	12	5:D	4				
661	12	5:D	4	VAR			
662	12	5:D	4	SPLITBUF : ^TMEMORY;			
663	12	5:D	5	MEMCHAIN : ^TMEMORY;			
664	12	5:D	6	MP06 : TMEMOVER;			
665	12	5:D	7	PTR2INT : TMEMOVER;			
666	12	5:D	8				
667	12	5:0	0	BEGIN			
668	12	5:1	0	IF DOGARBMM THEN			
669	12	5:2	4	GARBMEM;			
670	12	5:1	6	MEMSIZE := MEMSIZE + SIZEOF(TMEMORY);			
671	12	5:1	11	MEMCHAIN :=MEMHEAD;			
672	12	5:1	15	WHILE MEMCHAIN <> NIL DO			
673	12	5:2	20	BEGIN			
674	12	5:3	20	IF NOT MEMCHAIN^.INUSE THEN			
675	12	5:4	29	IF MEMCHAIN^.SIZE >= MEMSIZE THEN			
676	12	5:5	39	BEGIN			
677	12	5:6	39	IF (MEMCHAIN^.SIZE - MEMSIZE) > SIZEOF(TMEMORY) THEN			
678	12	5:7	51	BEGIN			
679	12	5:8	51	PTR2INT.PMEM := MEMCHAIN;			
680	12	5:8	54	PTR2INT.I := PTR2INT.I + MEMSIZE;			
681	12	5:8	59	SPLITBUF := PTR2INT.PMEM;			
682	12	5:8	62	SPLITBUF^.NEXT := MEMCHAIN^.NEXT;			
683	12	5:8	66	SPLITBUF^.SIZE := MEMCHAIN^.SIZE - MEMSIZE;			

684	12	5:8	80	SPLITBUF^.INUSE := FALSE;		
685	12	5:8	87	MEMCHAIN^.SIZE := MEMSIZE;		
686	12	5:8	94	MEMCHAIN^.NEXT := SPLITBUF		
687	12	5:7	95	END;		
688	12	5:6	97	MEMCHAIN^.INUSE := TRUE;		
689	12	5:6	104	PTR2INT.PMEM := MEMCHAIN;		
690	12	5:6	107	MP06.I := PTR2INT.I + SIZEOF(TMEMORY);		
691	12	5:6	112	GETMEM := MP06.PWIN;		
692	12	5:6	115	EXIT(GETMEM)		
693	12	5:5	119	END;		
694	12	5:3	119	SPLITBUF := MEMCHAIN;		
695	12	5:3	122	MEMCHAIN := MEMCHAIN^.NEXT		
696	12	5:2	123	END;		
697	12	5:1	128	MARK(MEMCHAIN);		
698	12	5:1	132	IF MEMHEAD = NIL THEN		
699	12	5:2	138	MEMHEAD := MEMCHAIN		
700	12	5:1	138	ELSE		
701	12	5:2	143	SPLITBUF^.NEXT := MEMCHAIN;		
702	12	5:1	146	MEMCHAIN^.NEXT := NIL;		
703	12	5:1	149	MEMCHAIN^.SIZE := MEMSIZE;		
704	12	5:1	156	MEMCHAIN^.INUSE := TRUE;		
705	12	5:1	163	PTR2INT.PMEM := MEMCHAIN;		
706	12	5:1	166	MP06.I := PTR2INT.I + SIZEOF(TMEMORY);		
707	12	5:1	171	GETMEM := MP06.PWIN;		
708	12	5:1	174	PTR2INT.I := PTR2INT.I + MEMSIZE;		
709	12	5:1	179	RELEASE(PTR2INT.PMEM)		
710	12	5:0	181	END;		
711	12	5:0	198			
712	12	5:0	198			
713	12	6:D	1	PROCEDURE RELMEM(MP01: TWINDOWP);		
714	12	6:D	2			
715	12	6:D	2	VAR		
716	12	6:D	2	MP02 : TMEMOVER;		
717	12	6:D	3	MP03 : ^TMEMORY;		
718	12	6:D	4	MP04 : TMEMOVER;		
719	12	6:D	5	MP05 : INTEGER;		
720	12	6:D	6			
721	12	6:0	0	BEGIN		
722	12	6:1	0	IF MEMHEAD = NIL THEN		
723	12	6:2	6	EXIT(RELMEM);		
724	12	6:1	10	MP03 := MEMHEAD;		
725	12	6:1	14	MP04.PWIN := MP01;		
726	12	6:1	17	MP05 := MP04.I - SIZEOF(TMEMORY);		
727	12	6:1	22	MP02.I := MP05;		
728	12	6:1	25	WHILE MP03 <> MP02.PMEM DO		
729	12	6:2	30	BEGIN		
730	12	6:3	30	MP03 := MP03^.NEXT;		
731	12	6:3	34	IF MP03 = NIL THEN		
732	12	6:4	39	EXIT(RELMEM);		
733	12	6:2	43	END;		
734	12	6:1	45	MP03^.INUSE := FALSE;		
735	12	6:1	52	DOGARBMM := TRUE		
736	12	6:0	52	END;		
737	12	6:0	70			
738	12	6:0	70			
739	12	7:D	1	PROCEDURE P010607(MP01: BOOLEAN);		
740	12	7:D	2			

741	12	7:D	2	VAR				
742	12	7:D	2	MP02 : INTEGER;				
743	12	7:D	3					
744	12	7:D	3					
745	12	8:D	3	FUNCTION P010608(MP04 : TCACHEP;				
746	12	8:D	4	MP03 : INTEGER) : TCACHEP;				
747	12	8:D	5					
748	12	8:D	5	VAR				
749	12	8:D	5	MP05 : TWINDOWP;				
750	12	8:D	6					
751	12	8:D	6	MP06 : TCACHEP;				
752	12	8:D	7					
753	12	8:D	7	MP07 : TCACHEP;				
754	12	8:D	8					
755	12	8:0	0	BEGIN (* P010608 *)				
756	12	8:1	0	MP05 := GETMEM(MP03);				
757	12	8:1	7	MOVELEFT(MP05, MP06, 2);				
758	12	8:1	16	MP07 := MP06;				
759	12	8:1	19	MP07^.FORWRD := NIL;				
760	12	8:1	24	MP07^.BACKWRD := MP04;				
761	12	8:1	29	IF MP04 <> NIL THEN				
762	12	8:2	34	MP04^.FORWRD := MP06;				
763	12	8:1	39	MP07^.KEY := -1;				
764	12	8:1	43	P010608 := MP06				
765	12	8:0	43	END; (* P010608 *)				
766	12	8:0	58					
767	12	8:0	58					
768	12	7:0	0	BEGIN (* P010607 *)				
769	12	7:1	0	IF MP01 THEN				
770	12	7:2	3	BEGIN				
771	12	7:3	3	WHILE MEMAVAIL > 10500 DO				
772	12	7:4	11	BEGIN				
773	12	7:5	11	DSKCACHL := P010608(DSKCACHL, 518);				
774	12	7:5	22	FOR MP02 := 0 TO 3 DO				
775	12	7:6	33	MSGCACHL := P010608(MSGCACHL, 26)				
776	12	7:4	36	END				
777	12	7:2	49	END				
778	12	7:1	51	ELSE				
779	12	7:2	53	BEGIN				
780	12	7:3	53	DSKCACHF := P010608(NIL, 518);				
781	12	7:3	63	DSKCACHL := DSKCACHF;				
782	12	7:3	67	MSGCACHF := P010608(NIL, 26);				
783	12	7:3	75	MSGCACHL := MSGCACHF;				
784	12	7:3	79	DSKCACHL := P010608(DSKCACHL, 518);				
785	12	7:3	90	FOR MP02 := 0 TO 23 DO				
786	12	7:4	101	MSGCACHL := P010608(MSGCACHL, 26)				
787	12	7:2	104	END				
788	12	7:0	117	END; (* P010607 *)				
789	12	7:0	136					
790	12	9:D	1	PROCEDURE P010609(MP02: STRING; MP01: INTEGER);				
791	12	9:D	44	(* 'ASCII.KRN', 0 *)				
792	12	9:D	44	VAR				
793	12	9:D	44	MP2C : INTEGER;				
794	12	9:D	45	BUFFER : ARRAY[0..511] OF INTEGER; (* GUESSING *)				
795	12	9:D	557	MP22D : TWINDOWP;				
796	12	9:D	558					
797	12	9:D	558					

	798	12	10:D	1	PROCEDURE P01060A(MP02 : INTEGER; MP01 : INTEGER);			
	799	12	10:D	3				
	800	12	10:D	3	VAR			
	801	12	10:D	3	UNUSED1 : INTEGER;			
	802	12	10:D	4	UNUSED2 : INTEGER;			
	803	12	10:D	5				
	804	12	10:0	0	BEGIN (* P01060A *)			
	805	12	10:1	0	MP22D := GETMEM(MP01);			
	806	12	10:1	9	UNITREAD(DRIVE1, MP22D^, MP01, ASCIIKBL + MP02)			
	807	12	10:0	23	END; (* P01060A *)			
	808	12	10:0	36				
	809	12	10:0	36				
	810	12	9:0	0	BEGIN (* P010609 *)			
	811	12	9:1	0	BASE75B[0] := CHR(MP01);			
	812	12	9:1	11	IF ASCIIHSH.PMEM <> NIL THEN			
	813	12	9:2	17	BEGIN			
	814	12	9:3	17	MOVELEFT(ASCIIHSH.I, MP22D, 2);			
	815	12	9:3	27	RELMEM(MP22D);			
	816	12	9:2	32	END;			
	817	12	9:1	32	FOR MP2C := 0 TO 2 DO			
	818	12	9:2	47	KANMP04[MP2C] := (MP2C = MP01);			
	819	12	9:2	68	(*			
	820	12	9:2	68	SET T/F IF WE HAVE THE FILE:			
	821	12	9:2	68				
	822	12	9:2	68	[00] ASCII.KRN			
	823	12	9:2	68	[01] KANA.KRN			
	824	12	9:2	68	[02] KANJI.KRN			
	825	12	9:2	68	*)			
	826	12	9:1	68	ASCIKBL := FINDFILE(DRIVE1, MP02);			
	827	12	9:1	78	UNITREAD(DRIVE1, BUFFER, 512, ASCIIKBL);			
	828	12	9:1	90	HUFFBLK := 0;			
	829	12	9:1	93	HFBLKCNT := (BUFFER[1] DIV 2) - 1;			
	830	12	9:1	105	P01060A(BUFFER[0], BUFFER[1]);			
	831	12	9:1	119	MOVELEFT(MP22D, ASCIIHSH.I, 2);			
	832	12	9:1	129	COPYSTR(MP02, MP02, 1, LENGTH(MP02) - 3);			
	833	12	9:1	143	PCONCAT(MP02, 'HUFF');			
	834	12	9:1	155	MP2C := FINDFILE(DRIVE1, MP02);			
	835	12	9:1	165	BASCIIHU := MP2C > 0;			
	836	12	9:1	172	IF BASCIIHU THEN			
	837	12	9:2	177	BEGIN			
	838	12	9:3	177	UNITREAD(DRIVE1, BUFFER, 1024, MP2C);			
	839	12	9:3	189	UNITWRITE(BASE12, BUFFER, 32, 0)			
	840	12	9:2	199	END;			
	841	12	9:0	199	END; (* P010609 *)			
	842	12	9:0	214				
	843	12	11:D	1	PROCEDURE INIT1; (* P01060B *)			
	844	12	11:D	1				
	845	12	11:D	1	VAR			
	846	12	11:D	1	MP01 : INTEGER;			
	847	12	11:D	2	MP02 : INTEGER;			
	848	12	11:D	3	MP03 : INTEGER;			
	849	12	11:D	4	MP04B: INTEGER;			
	850	12	11:D	5	MP05 : RECORD CASE INTEGER OF			
	851	12	11:D	5	0: (I : INTEGER);			
	852	12	11:D	5	1: (P : PINT);			
	853	12	11:D	5	END;			
	854	12	11:D	6				

855	12	12:D	1	PROCEDURE CHARSET(A: STRING); (* P01060C *)			
856	12	12:D	43				
857	12	12:D	43	VAR			
858	12	12:D	43	FIRSTBLK: INTEGER;			
859	12	12:D	44				
860	12	12:0	0	BEGIN (* CHARSET *)			
861	12	12:1	0	BASE47 := A;			
862	12	12:1	11	PCONCAT(BASE47, '.CHARSET');			
863	12	12:1	27	FIRSTBLK := FINDFILE(DRIVE1, BASE47);			
864	12	12:1	37	IF FIRSTBLK < 0 THEN			
865	12	12:2	43	CHARSET('200')	(* THIS LOOKS HORRIBLE!!! *)		
866	12	12:1	49	ELSE			
867	12	12:2	53	UNITWRITE(BASE12, FIRSTBLK, 14, FIRSTBLK)			
868	12	12:0	64	END; (* CHARSET *)			
869	12	12:0	76				
870	12	12:0	76				
871	12	13:D	1	PROCEDURE MONSTERS(A: STRING; MP01: INTEGER); (* P01060D *)			
872	12	13:D	44				
873	12	13:D	44	VAR			
874	12	13:D	44	MP2C : INTEGER;			
875	12	13:D	45				
876	12	13:0	0	BEGIN (* MONSTERS *)			
877	12	13:1	0	BASE75B[1] := CHR(MP01);			
878	12	13:1	11	BASE47 := A;			
879	12	13:1	17	PCONCAT(BASE47, '.MONSTERS');			
880	12	13:1	34	MP2C := FINDFILE(DRIVE1, BASE47);			
881	12	13:1	44	IF MP2C < 0 THEN			
882	12	13:2	50	MONSTERS('200', 0)			
883	12	13:1	57	ELSE			
884	12	13:2	61	UNITWRITE(BASE12, MP2C, 18, MP2C)			
885	12	13:0	72	END; (* MONSTERS *)			
886	12	13:0	84				
887	12	13:0	84				
888	12	11:0	0	BEGIN (* INIT1 *)			
889	12	11:1	0	MEMHEAD := NIL;			
890	12	11:1	3	DOGARBMM := FALSE;			
891	12	11:1	6	ASCIISH.PMEM := NIL;			
892	12	11:1	9	CACHEBL := -1;			
893	12	11:1	13	CACHEWRI := FALSE;			
894	12	11:1	16	ONECACBL := FALSE;			
895	12	11:1	19	FILLCHAR(KANMP04, 2, 0);			
896	12	11:1	27	UNITWRITE(BASE12, KANMP04, 1, 0); (* CLEAR SCREENS *)			
897	12	11:1	38	(* := #\$31 == [5] [4] [0] SET *)			
898	12	11:1	38	(* [0] = ASCII.KRN			
899	12	11:1	38	[1] = KANA.KRN (FALSE)			
900	12	11:1	38	[2] = KANJI.KRN (FALSE)			
901	12	11:1	38	[3] = ? (FALSE)			
902	12	11:1	38	[4] = 200.CHARSET			
903	12	11:1	38	[5] = 200.MONSTERS			
904	12	11:1	38				
905	12	11:1	38	SETS \$F1 AND \$E6			
906	12	11:1	38	*)			
907	12	11:1	38	IF KANMP04[4] THEN			
908	12	11:2	48	CHARSET('200')	(* 200.CHARSET TO \$D000 BANK 1 *)		
909	12	11:1	54	ELSE			
910	12	11:2	58	CHARSET('400');			
911	12	11:2	66				

912	12	11:1	66	IF KANMP04[5] THEN					
913	12	11:2	76	MONSTERS('200', 0)	(* 200.MONSTERS;	\$66.67 := \$34.35			
914	12	11:2	83		CLEAR \$74.75.76.77			*	
915	12	11:1	83	ELSE					
916	12	11:2	87	MONSTERS('400', 1);					
917	12	11:2	96						
918	12	11:1	96	WINCHAIN := NIL;					
919	12	11:1	99	IF BAPPLE THEN					
920	12	11:2	104	BEGIN					
921	12	11:3	104	MARK(MP05.P);					
922	12	11:3	108	IF MP05.I <= 8182 THEN		(* 8182 == \$1FF6 *)			
923	12	11:4	115	MAINWIN := GETMEM(8184 - MP05.I)					
924	12	11:3	120	ELSE					
925	12	11:4	128	MAINWIN := NIL;					
926	12	11:3	131	MARK(MP05.P);					
927	12	11:3	135	BASE10 := GETMEM(16380 - MP05.I);		(* 16380 == \$3FFC *)			
928	12	11:3	146	IF MAINWIN <> NIL THEN					
929	12	11:4	152	RELMEM(MAINWIN);					
930	12	11:2	156	END;					
931	12	11:1	156	MAINWIN := GETWIN(1, 1, 38, 22, 0, TRUE);					
932	12	11:1	169	BASE0D := NIL;					
933	12	11:1	172	BASE0C := NIL;					
934	12	11:1	175	CAMPTIT := NIL;					
935	12	11:1	178	BASE10 := NIL;					
936	12	11:1	181	CHARSWIN := NIL;					
937	12	11:1	184	CAMPWIN := NIL;					
938	12	11:1	187	INFOWOFF.B := FALSE;					
939	12	11:1	190	BASE18.B := TRUE;					
940	12	11:1	193	P010609('ASCII.KRN', 0);					
941	12	11:1	208	P010607(FALSE);					
942	12	11:1	211	KANMP01 := 1;					
943	12	11:0	215	END; (* INIT1 *)					
944	12	11:0	228						
945	12	11:0	228						
946	12	14:D	1	PROCEDURE SOLICSM;		(* P01060E *)			
947	12	14:D	1						
948	12	14:D	1	VAR					
949	12	14:D	1	MP01 : INTEGER;					
950	12	14:D	2	MP02 : INTEGER;					
951	12	14:D	3						
952	12	14:D	3						
953	12	15:D	1	PROCEDURE DISPXLIN(DISPWIN : TWINDOWP;		(* P01060F *)			
954	12	15:D	2	VPOS : INTEGER;					
955	12	15:D	3	FIRSTMSG : INTEGER;					
956	12	15:D	4	MSGCNT : INTEGER);					
957	12	15:D	5						
958	12	15:D	5	VAR					
959	12	15:D	5	MSGNUM : INTEGER;					
960	12	15:D	6						
961	12	15:0	0	BEGIN (* DISPXLIN *)					
962	12	15:1	0	MVCURSOR(DISPWIN, 0, VPOS);					
963	12	15:1	6	FOR MSGNUM := FIRSTMSG TO FIRSTMSG + MSGCNT - 1 DO					
964	12	15:2	21	DISPILIN(DISPWIN, MSGNUM)					
965	12	15:0	23	END; (* DISPXLIN *)					
966	12	15:0	48						
967	12	15:0	48						
968	12	16:D	1	PROCEDURE SCRLENMY;		(* P010610 *)			

969	12	16:D	1					
970	12	16:D	1	VAR				
971	12	16:D	1		MP01 : INTEGER;			
972	12	16:D	2		MP02 : INTEGER;			
973	12	16:D	3		MP03 : INTEGER;			
974	12	16:D	4		MP04 : INTEGER;			
975	12	16:D	5		MP05 : INTEGER;			
976	12	16:D	6					
977	12	16:0	0		BEGIN (* SCRLENMY *)			
978	12	16:0	0		(* CALC # OF BYTES IN 1 ROW OF WINMAIN FOR HI-RES PICTURES *)			
979	12	16:1	0		MP01 := 2 * (MAINWIN^.HEAD.HSIZE - 2);			
980	12	16:1	13					
981	12	16:1	13		(* SCROLL THE PICS DOWNWARD AND OFF THE SCREEN *)			
982	12	16:1	13		FOR MP05 := 9 TO 13 DO			
983	12	16:2	24		BEGIN			
984	12	16:3	24		FOR MP04 := 13 DOWNT0 MP05 + 1 DO			
985	12	16:4	37		MOVELEFT(MAINWIN^.DATA[MP01 * (MP04 - 1)],			
986	12	16:4	46		MAINWIN^.DATA[MP01 * MP04],			
987	12	16:4	53		MP01);			
988	12	16:4	63					
989	12	16:4	63		(* CLEAR EACH 16 BIT VALUE TO #\$20 #\$20 *)			
990	12	16:3	63		FILLCHAR(MAINWIN^.DATA[MP01 * MP05],			
991	12	16:3	70		MP01,			
992	12	16:3	71		' ');			
993	12	16:3	74		UNITWRITE(BASE12, MAINWIN^, 3, 0)			
994	12	16:2	84		END;			
995	12	16:0	91		END; (* SCRLENMY *)			
996	12	16:0	108					
997	12	16:0	108					
998	12	14:0	0		BEGIN (* SOLICSM *)			
999	12	14:1	0		IF BLINES24 THEN			
1000	12	14:2	5		BASE10 := GETWIN(0, 17, 40, 7, 30, FALSE)			
1001	12	14:1	11		ELSE			
1002	12	14:2	20		BASE10 := GETWIN(0, 18, 40, 7, 30, FALSE);			
1003	12	14:1	33		CLEARWIN(MAINWIN, TRUE);			
1004	12	14:1	39		IF FINDFILE(DRIVE1, 'IS.TITLE') > 0 THEN			
1005	12	14:2	60		BEGIN			
1006	12	14:3	60		IF KANMP04[5] THEN			
1007	12	14:4	70		BASE47 := '200.TITLE'			
1008	12	14:3	72		ELSE			
1009	12	14:4	88		BASE47 := '400.TITLE';			
1010	12	14:3	104		MP02 := FINDFILE(DRIVE1, BASE47);			
1011	12	14:3	114		UNITWRITE(BASE12, MP02, 23, MP02);			
1012	12	14:2	124		END;			
1013	12	14:2	124					
1014	12	14:1	124		DISPXLIN(MAINWIN, 0, 2040, 6); (* VPOS = 0; MSG 2040 - 2045 *)			
1015	12	14:1	133		(* "TITLE" AND CREDITS *)			
1016	12	14:1	133					
1017	12	14:1	133		UNITREAD(DRIVE1, BASEC7, 19, 5); (* READ 19 BYTES FROM BLOCK #5 *)			
1018	12	14:1	143		(* LAST BLOCK OF DIRECTORY *)			
1019	12	14:1	143					
1020	12	14:1	143		DISPXLIN(BASE10, 2, 2021, 2); (* VPOS = 2; MSG 2021 - 2022 *)			
1021	12	14:1	151		(* S)TART GAME, M)AKE SCENARIO *)			
1022	12	14:1	151					
1023	12	14:1	151		REPEAT			
1024	12	14:1	151					
1025	12	14:2	151		WHILE NOT KEYPRESS DO			

1026	12	14:3	159	BEGIN				
1027	12	14:4	159	FILLCHAR(BASE47, 4, CHR(255));	(* BASE47 === KANMP02 *)			
1028	12	14:4	168	UNITWRITE(BASE12, KANMP02, 17, ORD(MAINWIN));				
1029	12	14:4	180	UNITWRITE(BASE12, MAINWIN^, 3, 0);				
1030	12	14:4	190	FILLCHAR(BASE47, 4, CHR(255));				
1031	12	14:4	199	MP01 := RAND MOD 4;				
1032	12	14:4	208	FOR MP02 := 0 TO MP01 DO				
1033	12	14:5	219	KANMP02[MP02] := CHR(1 + RAND MOD 24);				
1034	12	14:4	240	UNITWRITE(BASE12, KANMP02, 13, ORD(MAINWIN));				
1035	12	14:4	252	UNITWRITE(BASE12, MAINWIN^, 3, 0);				
1036	12	14:4	262	MP02 := 0;				
1037	12	14:4	265	WHILE (MP02 < 30) AND (NOT KEYPRESS) DO				
1038	12	14:5	277	BEGIN				
1039	12	14:6	277	MP02 := MP02 + 1;				
1040	12	14:6	282	MP01 := 2;				
1041	12	14:6	285	UNITWRITE(BASE12, MP01, 19, MP01)				
1042	12	14:5	295	END;				
1043	12	14:4	297	SCRLENMY				
1044	12	14:3	297	END;				
1045	12	14:3	301					
1046	12	14:3	301	(* AFTER WHILE LOOPS *)				
1047	12	14:3	301					
1048	12	14:2	301	GETKEY;	(* INCHAR := KEY *)			
1049	12	14:2	304	GETMSGTX(BASE47, 2021);	(* "S)TART GAME" *)			
1050	12	14:2	312	GETMSGTX(BASEC7, 2022);	(* "M)AKE SCENARIO" *)			
1051	12	14:2	321					
1052	12	14:1	321	UNTIL (INCHAR = BASE47[1]) OR	(* "S" *)			
1053	12	14:1	327	(INCHAR = BASEC7[1]);	(* "M" *)			
1054	12	14:1	337					
1055	12	14:1	337	DELWIN(BASE10, TRUE);				
1056	12	14:1	343	IF INCHAR = BASEC7[1] THEN				
1057	12	14:2	352	KANMP01 := 2	(* M)AKE SCENARIO *)			
1058	12	14:1	352	ELSE				
1059	12	14:2	358	KANMP01 := 3;	(* S)TART GAME *)			
1060	12	14:1	362	MP02 := 0;				
1061	12	14:1	365	UNITWRITE(BASE12, MP02, 23, MP02)				
1062	12	14:1	375					
1063	12	14:0	375	END;	(* SOLICSM *)			
1064	12	14:0	398					
1065	12	14:0	398					
1066	12	17:D	1	PROCEDURE P010611;				
1067	12	17:D	1					
1068	12	17:D	1	VAR				
1069	12	17:D	1	MP01 : INTEGER;				
1070	12	17:D	2	MP02 : INTEGER;				
1071	12	17:D	3	MP03 : INTEGER;				
1072	12	17:D	4	MP04 : INTEGER;				
1073	12	17:D	5					
1074	12	17:0	0	BEGIN (* P010611 *)				
1075	12	17:1	0	FILLCHAR(KANMP04, 2, 0);				
1076	12	17:1	8	UNITWRITE(BASE12, KANMP04, 1, 0);	(* JUST A NOP ????? *)			
1077	12	17:1	19	BASE36 := KANMP04[2];				
1078	12	17:1	29	IF KANMP04[1] OR KANMP04[2] THEN				
1079	12	17:2	48	BEGIN				
1080	12	17:2	48					
1081	12	17:2	48		(* KANA.KRN OR KANJI.KRN PROCESSING (?) *)			
1082	12	17:2	48					

1083	12	17:3	48	CLEARWIN(MAINWIN, TRUE);			
1084	12	17:3	54	PRINTCR(MAINWIN);			
1085	12	17:3	59	DISP1LIN(MAINWIN, 2024);	(* 2024 = SELECT LANGUAGE *)		
1086	12	17:3	67	PRINTCR(MAINWIN);			
1087	12	17:3	72	DISP1LIN(MAINWIN, 2025);	(* 2025 = ENGLISH *)		
1088	12	17:3	80	IF KANMP04[1] THEN			
1089	12	17:4	90	DISP1LIN(MAINWIN, 2026);	(* 2026 = KANA *)		
1090	12	17:3	98	IF KANMP04[2] THEN			
1091	12	17:4	108	DISP1LIN(MAINWIN, 2027);	(* 2027 = KANJI *)		
1092	12	17:3	116	MVCURSOR(MAINWIN, 0, 9);			
1093	12	17:3	123	BASE09 := 1700;	(* 1700 = CREDITS+NEC 9801 (C) *)		
1094	12	17:3	128	GETMSGTX(BASE47, BASE09);	(* "TOFU" MSG *)		
1095	12	17:3	134	WHILE BASE47 <> '**ERR**' DO			
1096	12	17:4	150	BEGIN			
1097	12	17:5	150	CENTSTR(MAINWIN, BASE47);			
1098	12	17:5	157	BASE09 := BASE09 + 1;			
1099	12	17:5	162	GETMSGTX(BASE47, BASE09)			
1100	12	17:4	165	END;			
1101	12	17:3	170	REPEAT			
1102	12	17:4	170	REPEAT			
1103	12	17:5	170	GETKEY;			
1104	12	17:5	173	MP03 := ORD(INCHAR) - 48			
1105	12	17:4	174	UNTIL (MP03 > 0) AND (MP03 <= 3);			
1106	12	17:3	187	UNTIL KANMP04[MP03 - 1];			
1107	12	17:3	199				
1108	12	17:3	199	CASE MP03 OF			
1109	12	17:3	202	1: P010609('ASCII.KRN', MP03 - 1);			
1110	12	17:3	221	2: P010609('KANA.KRN', MP03 - 1);			
1111	12	17:3	239	3: P010609('KANJI.KRN', MP03 - 1);			
1112	12	17:3	258	END;			
1113	12	17:2	272	END;			
1114	12	17:1	272	CLEARWIN(MAINWIN, TRUE);			
1115	12	17:1	278	IF KANMP04[3] THEN			
1116	12	17:2	288	BEGIN			
1117	12	17:3	288	MVCURSOR(MAINWIN, 0, 9);			
1118	12	17:3	295	DISP1LIN(MAINWIN, 5);			
1119	12	17:3	301	GETMSGTX(BASE47, 31);			
1120	12	17:3	307	GETMSGTX(BASEC7, 32);			
1121	12	17:3	314	REPEAT			
1122	12	17:4	314	GETKEY;			
1123	12	17:3	317	UNTIL (INCHAR = BASE47[1]) OR			
1124	12	17:3	323	(INCHAR = BASEC7[1]);			
1125	12	17:3	333	KANMP04[3] := INCHAR = BASE47[1];			
1126	12	17:3	347	CLEARWIN(MAINWIN, TRUE)			
1127	12	17:2	350	END;			
1128	12	17:1	353	UNITWRITE(BASE12, KANMP04, 1, 0);	(* JUST A NOP ????)		
1129	12	17:1	364	P010607(TRUE);			
1130	12	17:1	367	KANMP01 := 4			
1131	12	17:0	367	END; (* P010611 *)			
1132	12	17:0	394				
1133	12	17:0	394				
1134	12	18:D	1	PROCEDURE P010612;			
1135	12	18:D	1				
1136	12	18:D	1	VAR			
1137	12	18:D	1	MP01 : INTEGER;			
1138	12	18:D	2	MP02 : INTEGER;			
1139	12	18:D	3	MP03 : INTEGER;			

1140	12	18:D	4	MP04 : INTEGER;				
1141	12	18:D	5	MP05 : INTEGER;				
1142	12	18:D	6	MP06 : INTEGER;				
1143	12	18:D	7	MP07 : INTEGER;				
1144	12	18:D	8	MP08 : INTEGER;				
1145	12	18:D	9	MP09 : INTEGER;				
1146	12	18:D	10	MPOA : INTEGER;				
1147	12	18:D	11	MPOB : INTEGER;				
1148	12	18:D	12	MPOC : INTEGER;				
1149	12	18:D	13					
1150	12	18:0	0	BEGIN (* P010612 *)				
1151	12	18:1	0	MP03 := 0;				
1152	12	18:1	3	UNITWRITE(BASE12, MP03, 22, MP03);				
1153	12	18:1	13	WHILE WRITEPRO DO				
1154	12	18:2	19	BEGIN				
1155	12	18:3	19	CLEARWIN(MAINWIN, TRUE);				
1156	12	18:3	25	MVCURSOR(MAINWIN, 0, 10);				
1157	12	18:3	32	DISPILIN(MAINWIN, 13); (* PLACE SCENARIO DISK "A" *)				
1158	12	18:3	38	DISPILIN(MAINWIN, 14); (* IN DRIVE 1, PRESS RTN *)				
1159	12	18:3	44	GETCR				
1160	12	18:2	44	END;				
1161	12	18:1	49	SCENBLK := FINDFILE(DRIVE1, 'SCENARIO.DATA');				
1162	12	18:1	73	UNITREAD(DRIVE1, BASE55B, 512, 5); (* SERIALBL *)				
1163	12	18:1	85	MVCURSOR(MAINWIN, 0, 0);				
1164	12	18:1	92					
1165	12	18:1	92	(* DO IT AGAIN!? *)				
1166	12	18:1	92	SCENBLK := FINDFILE(DRIVE1, 'SCENARIO.DATA');				
1167	12	18:1	116	UNITREAD(DRIVE1, BASE55B, 512, 5);				
1168	12	18:1	128					
1169	12	18:1	128	TIMEDLAY := 20;				
1170	12	18:1	131	CACHEWRI := FALSE;				
1171	12	18:1	134	CACHEBL := SCENBLK;				
1172	12	18:1	138	ONECACBL := FALSE;				
1173	12	18:1	141	UNITREAD(DRIVE1, BASE55B, 1024, SCENBLK);				
1174	12	18:1	154	MOVELEFT(BASE55B, SCENARIO, 504);				
1175	12	18:1	167	KANABLCK := FINDFILE(DRIVE1, 'KANA.KEYMAP');				
1176	12	18:1	189	BASE13 := 1;				
1177	12	18:1	192	MAZEX := 0;				
1178	12	18:1	195	MAZEY := 0;				
1179	12	18:1	198	MAZELEV := 0;				
1180	12	18:1	201	BASE04 := 0;				
1181	12	18:1	204	DIRECTIO := 0;				
1182	12	18:1	207	ACMOD2 := 0;				
1183	12	18:1	210	MP03 := 1;				
1184	12	18:1	213	UNITWRITE(BASE12, MP03, 22, MP03);				
1185	12	18:1	223	IF BCACHE THEN				
1186	12	18:2	228	BASE09 := 2				
1187	12	18:1	228	ELSE				
1188	12	18:2	233	BASE09 := 0;				
1189	12	18:1	236	EXIT(KANJIREA)				
1190	12	18:0	240	END; (* P010612 *)				
1191	12	18:0	254					
1192	12	18:0	254					
1193	12	19:D	1	PROCEDURE MOREWIZ; (* P010613 *)				
1194	12	19:D	1					
1195	12	19:0	0	BEGIN				
1196	12	19:1	0	GETMSGTX(BASE47, 20); (* RTN FOR MORE WIZARDRY *)				

1197	12	19:1	6	BASE10 := GETWIN2(MBSTRLEN(BASE47), 21, 3, 1, TRUE);			
1198	12	19:1	24	CENTSTR(BASE10, BASE47);			
1199	12	19:1	30	DELWIN(BASE10, FALSE);			
1200	12	19:1	36	GETCR;			
1201	12	19:1	39	BASE13 := 1;			
1202	12	19:1	42	MAZEX := 0;			
1203	12	19:1	45	MAZEY := 0;			
1204	12	19:1	48	MAZELEV := 0;			
1205	12	19:1	51	BASE04 := 0;			
1206	12	19:1	54	DIRECTIO := 0;			
1207	12	19:1	57	ACMOD2 := 0;			
1208	12	19:1	60	BASE09 := 0;			
1209	12	19:1	63	EXIT(KANJIREA)			
1210	12	19:0	67	END; (* MOREWIZ *)			
1211	12	19:0	80				
1212	12	19:0	80	(*I WIZ4B:KANJIREA *)			
1212	12	19:0	80	(*I WIZ4B:KANJIREA2 *)			
1213	12	19:0	80				
1214	12	19:0	80				
1215	12	19:0	80	(* KANJIREA2.TEXT *)			
1216	12	19:0	80				
1217	12	20:D	1	PROCEDURE P010614;			
1218	12	20:D	1				
1219	12	20:D	1	VAR			
1220	12	20:D	1	P14MP01 : INTEGER;			
1221	12	20:D	2	P14MP02 : INTEGER;			
1222	12	20:D	3	P14MP03 : INTEGER;			
1223	12	20:D	4	MP04 : TWINDOWP;			
1224	12	20:D	5	MP05 : BOOLEAN;			
1225	12	20:D	6	MP06 : BOOLEAN;			
1226	12	20:D	7	MP07 : CHAR;			
1227	12	20:D	8	MP08 : CHAR;			
1228	12	20:D	9	MP09 : INTEGER;			
1229	12	20:D	10	MPOA : INTEGER;			
1230	12	20:D	11	MPOB : INTEGER;			
1231	12	20:D	12				
1232	12	20:D	12	MPOC : STRING[2];			
1233	12	20:D	14	MPOE : INTEGER;			
1234	12	20:D	15	MPOF : INTEGER;			
1235	12	20:D	16				
1236	12	20:D	16	MP10 : STRING[62];			
1237	12	20:D	48	MP30 : PACKED ARRAY[0..255] OF CHAR;			
1238	12	20:D	176				
1239	12	20:D	176				
1240	12	21:D	1	PROCEDURE P010615;			
1241	12	21:D	1				
1242	12	21:0	0	BEGIN			
1243	12	21:1	0	P14MP01 := P14MP01 - 1;			
1244	12	21:1	8	IF (KANMP02[P14MP01] >= CHR(129)) AND			
1245	12	21:1	19	(KANMP02[P14MP01] <= CHR(159)) THEN			
1246	12	21:2	33	P14MP01 := P14MP01 - 1;			
1247	12	21:1	41	P14MP03 := P14MP03 - 1;			
1248	12	21:1	49	MVCURSOR(KANMP03, P14MP03, P14MP02);			
1249	12	21:1	61	PRPICCH(KANMP03, ' ');			
1250	12	21:1	68	MVCURSOR(KANMP03, P14MP03, P14MP02)			
1251	12	21:0	77	END;			
1252	12	21:0	92				

1253	12	21:0	92				
1254	12	22:D	1	PROCEDURE	P010616(	VAR MP01 : CHAR);	
1255	12	22:D	2				
1256	12	22:D	2	VAR			
1257	12	22:D	2		(* GOOFY CONSTRUCT BUT IT WORKS! *)		
1258	12	22:D	2				
1259	12	22:D	2	MP02 :	PACKED RECORD CASE INTEGER OF		
1260	12	22:D	2	1 :	(I: INTEGER);		
1261	12	22:D	2	2 :	(S: STRING[1]);		
1262	12	22:D	2	END;			
1263	12	22:D	3				
1264	12	22:0	0	BEGIN			
1265	12	22:1	0	UNITREAD(	2, MP02, 1, 0);	(* KEYBOARD *)	
1266	12	22:1	9	MP01 :=	MP02.S[0];		
1267	12	22:0	15	END;			
1268	12	22:0	28				
1269	12	22:0	28				
1270	12	23:D	1	PROCEDURE	P010617(	MP02 : INTEGER;	
1271	12	23:D	2		MP01 : INTEGER);		
1272	12	23:D	3				
1273	12	23:D	3	VAR			
1274	12	23:D	3	MP03 :	CHAR;		
1275	12	23:D	4				
1276	12	23:0	0	BEGIN			
1277	12	23:1	0	IF	P14MP01 > 0 THEN		
1278	12	23:2	7	IF	MP10[P14MP01] <> CHR(255) THEN		
1279	12	23:3	20	IF	(ORD(MP30[64 + ORD(MP10[P14MP01])))) > MP02 THEN		
1280	12	23:4	37	BEGIN			
1281	12	23:5	37	MP03 :=	CHR(ORD(MP10[P14MP01 - 1]) + MP01);		
1282	12	23:5	50	INCHAR :=	MP03;		
1283	12	23:5	53	MPOC[1] :=	KANMP02[P14MP01 - 1];		
1284	12	23:5	67	MPOC[2] :=	INCHAR;		
1285	12	23:5	73	KANMP02[	P14MP01] := INCHAR;		
1286	12	23:5	81	MVCURSOR(	KANMP03, P14MP03 - 1, P14MP02);		
1287	12	23:5	95	PRPICMB(	KANMP03, MPOC)		
1288	12	23:4	101	END			
1289	12	23:0	104	END;			
1290	12	23:0	116				
1291	12	23:0	116				
1292	12	24:D	1	PROCEDURE	P010618(	VAR MP03 : CHAR;	
1293	12	24:D	2		VAR MP02 : CHAR;		
1294	12	24:D	3		MP01 : INTEGER);		
1295	12	24:D	4				
1296	12	24:D	4	VAR			
1297	12	24:D	4	MP04 :	INTEGER;		
1298	12	24:D	5	MP05 :	INTEGER;		
1299	12	24:D	6				
1300	12	24:0	0	BEGIN			
1301	12	24:1	0	MP05 :=	ORD(MP03);		
1302	12	24:1	4	MP04 :=	ORD(MP02);		
1303	12	24:1	8				
1304	12	24:1	8	MP04 :=	MP04 + MP01;		
1305	12	24:1	13	IF	MP04 = 127 THEN		
1306	12	24:2	18	IF	MP01 < 0 THEN		
1307	12	24:3	23	MP04 :=	MP04 - 1		
1308	12	24:2	24	ELSE			
1309	12	24:3	30	MP04 :=	MP04 + 1		

1310	12	24:1	31	ELSE			
1311	12	24:2	37	IF MP04 > 252 THEN			
1312	12	24:3	44	BEGIN			
1313	12	24:4	44	MP04 := MP04 - 189;			
1314	12	24:4	51	MP05 := MP05 + 1			
1315	12	24:3	52	END			
1316	12	24:2	56	ELSE			
1317	12	24:3	58	IF MP04 < 64 THEN			
1318	12	24:4	63	IF MP05 = 129 THEN			
1319	12	24:5	70	BEGIN			
1320	12	24:6	70	MP04 := MP04 + 51;			
1321	12	24:6	75	MP05 := 152			
1322	12	24:5	75	END			
1323	12	24:4	80	ELSE			
1324	12	24:5	82	BEGIN			
1325	12	24:6	82	MP04 := MP04 + 189;			
1326	12	24:6	89	MP05 := MP05 - 1			
1327	12	24:5	90	END			
1328	12	24:3	94	ELSE			
1329	12	24:4	96	IF (MP05 = 152) AND (MP04 > 114) THEN			
1330	12	24:5	107	BEGIN			
1331	12	24:6	107	MP05 := 129;			
1332	12	24:6	112	MP04 := MP04 - 51			
1333	12	24:5	113	END;			
1334	12	24:5	117				
1335	12	24:1	117	MP03 := CHR(MP05);			
1336	12	24:1	120	MP02 := CHR(MP04)			
1337	12	24:1	122				
1338	12	24:0	122	END;			
1339	12	24:0	136				
1340	12	24:0	136				
1341	12	25:D	1	PROCEDURE P010619;			
1342	12	25:D	1				
1343	12	25:D	1	VAR			
1344	12	25:D	1	MP01 : INTEGER;			
1345	12	25:D	2	MP02 : CHAR;			
1346	12	25:D	3	MP03 : CHAR;			
1347	12	25:D	4				
1348	12	25:0	0	BEGIN			
1349	12	25:1	0	MP03 := MP08;			
1350	12	25:1	5	MP02 := MP07;			
1351	12	25:1	10	P010618(MP03, MP02, -MP0B);			
1352	12	25:1	20	FOR MP01 := 0 TO 9 DO			
1353	12	25:2	31	BEGIN			
1354	12	25:3	31	MVCURS(MP04, MP01 + MP01 + 1, 3);			
1355	12	25:3	43	MPOC[1] := MP03;			
1356	12	25:3	49	MPOC[2] := MP02;			
1357	12	25:3	55	PRPICMB(MP04, MPOC);			
1358	12	25:3	64	P010618(MP03, MP02, 1)			
1359	12	25:2	69	END			
1360	12	25:0	71	END;			
1361	12	25:0	92				
1362	12	25:0	92				
1363	12	26:D	1	PROCEDURE P01061A(MP02 : INTEGER;			
1364	12	26:D	2	MP01 : CHAR);			
1365	12	26:D	3				
1366	12	26:0	0	BEGIN			

1367	12	26:1	0	MVCURS0R(MP04, MP02 + MP02 + 1, 4);		
1368	12	26:1	12	PRPICCH(MP04, MP01)		
1369	12	26:0	16	END;		
1370	12	26:0	32			
1371	12	26:0	32			
1372	12	27:D	1	PROCEDURE P01061B(MP01 : INTEGER);		
1373	12	27:D	2			
1374	12	27:0	0	BEGIN		
1375	12	27:1	0	IF MPOB <> -1 THEN		
1376	12	27:2	8	P01061A(MPOB, ' ');		
1377	12	27:1	14	MPOB := MP01;		
1378	12	27:1	18	P01061A(MPOB, '{') (* 123 *)		
1379	12	27:0	22	END;		
1380	12	27:0	36			
1381	12	27:0	36			
1382	12	28:D	1	PROCEDURE P01061C(MP01 : INTEGER);		
1383	12	28:D	2			
1384	12	28:D	2	VAR		
1385	12	28:D	2	MP02 : INTEGER;		
1386	12	28:D	3			
1387	12	28:0	0	BEGIN		
1388	12	28:1	0	IF MPO6 THEN		
1389	12	28:2	5	BEGIN		
1390	12	28:3	5	MP02 := MPOB + MP01;		
1391	12	28:3	12	P010618(MP08, MP07, MP01);		
1392	12	28:3	21	IF MP02 < 0 THEN		
1393	12	28:4	26	BEGIN		
1394	12	28:5	26	P01061B(MP02 + 10);		
1395	12	28:5	31	P010619		
1396	12	28:4	31	END		
1397	12	28:3	33	ELSE		
1398	12	28:4	35	IF MP02 > 9 THEN		
1399	12	28:5	40	BEGIN		
1400	12	28:6	40	P01061B(MP02 - 10);		
1401	12	28:6	45	P010619		
1402	12	28:5	45	END		
1403	12	28:4	47	ELSE		
1404	12	28:5	49	P01061B(MP02)		
1405	12	28:2	50	END		
1406	12	28:0	52	END;		
1407	12	28:0	64			
1408	12	28:0	64			
1409	12	20:0	0	BEGIN (* P010614 *)		
1410	12	20:1	0	UNITREAD(DRIVE1, MP30, 256, KANABLCK);		
1411	12	20:1	12	FILLCHAR(KANMP02, KANMP01 + 1, 0);		
1412	12	20:1	24	P14MP01 := 0;		
1413	12	20:1	27	MP05 := TRUE;		
1414	12	20:1	30	MP06 := FALSE;		
1415	12	20:1	33	MP09 := 130; (* \$82 *)		
1416	12	20:1	38	MP0A := 158; (* \$1E *)		
1417	12	20:1	43	MPOC := ' ';		
1418	12	20:1	52	MP08 := CHR(129); (* \$81 *)		
1419	12	20:1	57	MP07 := CHR(64);		
1420	12	20:1	60	MPOB := -1;		
1421	12	20:1	64	MP04 := NIL;		
1422	12	20:1	67	MPOF := KANMP03^.HEAD.HCURSOR; (* (3) 8, 0 RTBIT;#;^ *)		
1423	12	20:1	77	IF MPOF + 23 > 39 THEN		

1424	12	20:2	84	MP0F := 39 - 23;				
1425	12	20:2	89					
1426	12	20:1	89	REPEAT				
1427	12	20:2	89	P14MP03 := KANMP03^.HEAD.HCURSOR;				
1428	12	20:2	99	P14MP02 := KANMP03^.HEAD.VCURSOR;				
1429	12	20:2	109	MVCURSOR(KANMP03, P14MP03, P14MP02);				
1430	12	20:2	117	IF MP05 THEN				
1431	12	20:3	120	PRPICCH(KANMP03, ' _')				
1432	12	20:2	124	ELSE				
1433	12	20:3	129	PRPICCH(KANMP03, CHR(127));				
1434	12	20:2	136	GETKEY;				
1435	12	20:2	139	MVCURSOR(KANMP03, P14MP03, P14MP02);				
1436	12	20:2	147	PRPICCH(KANMP03, ' ');				
1437	12	20:2	154	MVCURSOR(KANMP03, P14MP03, P14MP02);				
1438	12	20:2	162					
1439	12	20:2	162	IF (INCHAR = CHR(8)) AND (P14MP01 > 0) THEN				
1440	12	20:3	171	P010615				
1441	12	20:2	171	ELSE IF BASE36 AND (INCHAR = CHR(2)) THEN				
1442	12	20:4	183	BEGIN				
1443	12	20:5	183	MP06 := NOT MP06;				
1444	12	20:5	187	IF MP06 THEN				
1445	12	20:6	190	IF MP04 = NIL THEN				
1446	12	20:7	195	BEGIN				
1447	12	20:8	195	MP04 :=				
1448	12	20:8	195	GETWIN(KANMP03^.HEAD.HPOS + MP0F,				
1449	12	20:8	205	KANMP03^.HEAD.VPOS +				
1450	12	20:8	213	KANMP03^.HEAD.VCURSOR + 3,				
1451	12	20:8	224	23, 7, 30, TRUE);				
1452	12	20:8	235					
1453	12	20:8	235	MVCURSOR(MP04, 0, 0);				
1454	12	20:8	241	DISP1LIN(MP04, 2);				
1455	12	20:8	246	(* INSERT DISK 'A' CONTAINING *)				
1456	12	20:8	246	DISP1LIN(MP04, 3);				
1457	12	20:8	251	(* SAVE GAME YOU WISH TO MOVE INTO *)				
1458	12	20:8	251	P01061B(0);				
1459	12	20:8	254	P010619				
1460	12	20:7	254	END				
1461	12	20:6	256	ELSE				
1462	12	20:7	258	UNPROWIN(MP04, TRUE)				
1463	12	20:5	260	ELSE				
1464	12	20:6	265	PROTWIN(MP04, TRUE);				
1465	12	20:4	270	END (* IF BASE36 *)				
1466	12	20:4	270					
1467	12	20:3	270	ELSE IF INCHAR = CHR(1) THEN				
1468	12	20:5	277	BEGIN				
1469	12	20:6	277	MP05 := NOT MP05;				
1470	12	20:6	281	IF MP05 THEN				
1471	12	20:7	284	BEGIN				
1472	12	20:8	284	MP09 := 130;				
1473	12	20:8	289	MP0A := 158				
1474	12	20:7	289	END				
1475	12	20:6	294	ELSE				
1476	12	20:7	296	BEGIN				
1477	12	20:8	296	MP09 := 131;				
1478	12	20:8	301	MP0A := 64				
1479	12	20:7	301	END				
1480	12	20:5	304	END				

1481	12	20:5	304				
1482	12	20:4	304	ELSE IF INCHAR = CHR(11) THEN			
1483	12	20:6	311	P01061C(-10)			
1484	12	20:6	313				
1485	12	20:5	313	ELSE IF INCHAR = CHR(10) THEN			
1486	12	20:7	322	P01061C(10)			
1487	12	20:7	323				
1488	12	20:6	323	ELSE IF INCHAR = CHR(12) THEN			
1489	12	20:8	332	P01061C(1)			
1490	12	20:8	333				
1491	12	20:7	333	ELSE IF INCHAR = CHR(9) THEN			
1492	12	20:9	342	P01061C(-1)			
1493	12	20:9	344				
1494	12	20:8	344	ELSE IF (INCHAR >= CHR(166)) AND			
1495	12	20:9	353	(INCHAR <= CHR(221)) AND			
1496	12	20:9	359	(P14MP03 < KANMP03^.HEAD.HSIZE - 3) AND			
1497	12	20:9	372	(P14MP01 < KANMP01 - 1) THEN			
1498	12	20:0	382	BEGIN			
1499	12	20:1	382	IF MP06 THEN			
1500	12	20:2	385	BEGIN			
1501	12	20:3	385	MP0E := ORD(INCHAR) - 166;			
1502	12	20:3	392	MP0E := MP0E + MP0E + 128;			
1503	12	20:3	401	MP08 := MP30[MP0E];			
1504	12	20:3	407	MP07 := MP30[MP0E + 1];			
1505	12	20:3	415	P01061B(0);			
1506	12	20:3	418	P010619			
1507	12	20:2	418	END			
1508	12	20:1	420	ELSE			
1509	12	20:2	422	BEGIN			
1510	12	20:3	422	P14MP01 := P14MP01 + 1;			
1511	12	20:3	427	KANMP02[P14MP01] := CHR(MP09);			
1512	12	20:3	433	MPOC[1] := CHR(MP09);			
1513	12	20:3	438	P14MP01 := P14MP01 + 1;			
1514	12	20:3	443	MP0E := ORD(INCHAR) - 166;			
1515	12	20:3	450	MP10[P14MP01] := CHR(MP0E);			
1516	12	20:3	455	MP0E := ORD(MP30[MP0E]);			
1517	12	20:3	461	IF MP0E > 127 THEN			
1518	12	20:4	466	BEGIN			
1519	12	20:5	466	P14MP01 := P14MP01 - 1;			
1520	12	20:5	471	INCHAR := CHR(MP0E - 128);			
1521	12	20:5	478	KANMP02[P14MP01] := INCHAR;			
1522	12	20:5	484	MP10[P14MP01] := CHR(255);			
1523	12	20:5	491	PRPICCH(KANMP03, INCHAR)			
1524	12	20:4	495	END			
1525	12	20:3	498	ELSE			
1526	12	20:4	500	BEGIN			
1527	12	20:5	500	MP0E := MP0E + MP0A;			
1528	12	20:5	505	IF MP0E >= 127 THEN			
1529	12	20:6	510	MP0E := MP0E + 1;			
1530	12	20:5	515	INCHAR := CHR(MP0E);			
1531	12	20:5	518	KANMP02[P14MP01] := INCHAR;			
1532	12	20:5	524	MP10[P14MP01 - 1] := INCHAR;			
1533	12	20:5	531	MPOC[2] := INCHAR;			
1534	12	20:5	536	PRPICMB(KANMP03, MPOC)			
1535	12	20:4	541	END			
1536	12	20:2	544	END			
1537	12	20:0	544	END			

1538	12	20:0	544				
1539	12	20:9	544	ELSE IF INCHAR = CHR(222) THEN			
1540	12	20:1	553	P010617(0, 1)			
1541	12	20:1	555				
1542	12	20:0	555	ELSE IF INCHAR = CHR(223) THEN			
1543	12	20:2	566	P010617(1, 2)			
1544	12	20:2	568				
1545	12	20:1	568	ELSE IF (INCHAR > CHR(31)) AND			
1546	12	20:2	575	(INCHAR <= CHR(127)) AND			
1547	12	20:2	579	(P14MP03 < (KANMP03^.HEAD.HSIZE - 3)) AND			
1548	12	20:2	592	(P14MP01 < KANMP01) THEN			
1549	12	20:3	600	BEGIN			
1550	12	20:3	600				
1551	12	20:4	600	IF (INCHAR = CHR(42)) OR			
1552	12	20:4	603	(INCHAR < CHR(33)) OR			
1553	12	20:4	607	(INCHAR > CHR(47)) THEN			
1554	12	20:5	613	BEGIN			
1555	12	20:6	613	P14MP01 := P14MP01 + 1;			
1556	12	20:6	618	KANMP02[P14MP01] := INCHAR;			
1557	12	20:6	624	MP10[P14MP01] := CHR(255);			
1558	12	20:6	631	PRPICCH(KANMP03, INCHAR)			
1559	12	20:5	635	END			
1560	12	20:5	638				
1561	12	20:3	638	END			
1562	12	20:3	638				
1563	12	20:2	638	ELSE IF (INCHAR = CHR(13)) OR			
1564	12	20:3	643	(INCHAR = CHR(27)) THEN			
1565	12	20:4	649	BEGIN			
1566	12	20:5	649	IF MP06 THEN			
1567	12	20:6	652	BEGIN			
1568	12	20:7	652	IF (P14MP03 < KANMP03^.HEAD.HSIZE - 3) AND			
1569	12	20:7	664	(P14MP01 < KANMP01 - 1) THEN			
1570	12	20:8	674	BEGIN			
1571	12	20:9	674	P14MP01 := P14MP01 + 1;			
1572	12	20:9	679	KANMP02[P14MP01] := MP08;			
1573	12	20:9	685	P14MP01 := P14MP01 + 1;			
1574	12	20:9	690	KANMP02[P14MP01] := MP07;			
1575	12	20:9	696	MP10[P14MP01] := CHR(255);			
1576	12	20:9	703	MPOC[1] := MP08;			
1577	12	20:9	708	MPOC[2] := MP07;			
1578	12	20:9	713	PRPICMB(KANMP03, MPOC)			
1579	12	20:8	718	END			
1580	12	20:6	721	END			
1581	12	20:5	721	ELSE			
1582	12	20:6	723	BEGIN			
1583	12	20:7	723	PRPICCH(KANMP03, ' ');			
1584	12	20:7	730	IF INCHAR = CHR(27) THEN			
1585	12	20:8	735	WHILE P14MP01 > 0 DO			
1586	12	20:9	740	P010615;			
1587	12	20:7	744	KANMP02[0] := CHR(P14MP01);			
1588	12	20:7	750	IF MP04 <> NIL THEN			
1589	12	20:8	755	DELWIN(MP04, TRUE);			
1590	12	20:7	761	EXIT(KANJIREA)			
1591	12	20:6	765	END			
1592	12	20:4	765	END			
1593	12	20:4	765				
1594	12	20:3	765	ELSE			

1595	12	20:4	767	PRINTBEL				
1596	12	20:4	767					
1597	12	20:1	767	UNTIL FALSE;				
1598	12	20:1	773					
1599	12	20:0	773	END; (* P010614 *)				
1600	12	20:0	814					
1601	12	20:0	814					
1602	12	1:0	0	BEGIN (* KANJIREA *)				
1603	12	1:0	0					
1604	12	1:1	0	IF KANMP03 = NIL THEN				
1605	12	1:2	5	REPEAT				
1606	12	1:3	5	BEGIN				
1607	12	1:4	5	CASE KANMP01 OF				
1608	12	1:4	8	0: INIT1;				
1609	12	1:4	12	1: SOLICSM; (* S)TART GAME; M)AKE SCENARIO *)				
1610	12	1:4	16	2: BEGIN				
1611	12	1:4	16	(* MAKE SCENARIO *)				
1612	12	1:6	16	BASE09 := 1;				
1613	12	1:6	19	EXIT(KANJIREA);				
1614	12	1:5	23	END;				
1615	12	1:4	25	3: P010611; (* START GAME *)				
1616	12	1:4	29	4: P010612;				
1617	12	1:4	33	5: MOREWIZ;				
1618	12	1:4	37	END				
1619	12	1:3	56	END				
1620	12	1:2	56	UNTIL FALSE				
1621	12	1:1	56	ELSE				
1622	12	1:2	61	P010614				
1623	12	1:2	61					
1624	12	1:0	61	END; (* KANJIREA *)				
1625	12	1:0	78					
1626	12	1:0	78	(*I WIZ4B:KANJIREA2 *)				
1627	12	1:0	78	(*I WIZ4B:UTILITIE *)				
1628	12	1:0	78					
1629	12	1:0	78					
1630	13	1:D	1	SEGMENT PROCEDURE UTILITIE; (* P010701 *)				
1631	13	1:D	1					
1632	13	1:D	1					
1633	13	1:D	1	VAR				
1634	13	1:D	1	UTILMP01 : INTEGER;				
1635	13	1:D	2	UTILMP02 : INTEGER;				
1636	13	1:D	3	UTILMP03 : INTEGER;				
1637	13	1:D	4					
1638	13	1:D	4					
1639	13	2:D	1	PROCEDURE P010702;				
1640	13	2:D	1					
1641	13	2:D	1	VAR				
1642	13	2:D	1	P02MP01 : INTEGER;				
1643	13	2:D	2	P02MP02 : INTEGER;				
1644	13	2:D	3	P02MP03 : INTEGER;				
1645	13	2:D	4	BFIGHT : BOOLEAN;				
1646	13	2:D	5	UTILWIN : TWINDOWP; (* MP05 *)				
1647	13	2:D	6	MAZE : TMAZE;				
1648	13	2:D	453					
1649	13	2:D	453					
1650	13	3:D	1	PROCEDURE DISPSMG(MSGNUM : INTEGER; (* P010703 *)				

	1651	13	3:D	2	VPOS : INTEGER);			
	1652	13	3:D	3				
	1653	13	3:0	0	BEGIN (* DISPMSG *)			
	1654	13	3:1	0	GETMSGTX(BASE47, MSGNUM);			
	1655	13	3:1	6	UTILWIN := GETWIN2(MBSTRLEN(BASE47), VPOS, 3, 31, TRUE);			
	1656	13	3:1	25	CENTSTR(UTILWIN, BASE47);			
	1657	13	3:1	33	DELWIN(UTILWIN, FALSE)			
	1658	13	3:0	37	END; (* DISPMSG *)			
	1659	13	3:0	52				
	1660	13	3:0	52				
	1661	13	4:D	1	PROCEDURE SETFIGHT; (* P010704 *)			
	1662	13	4:D	1				
	1663	13	4:D	1	VAR			
	1664	13	4:D	1	YPOS : INTEGER;			
	1665	13	4:D	2	XPOS : INTEGER;			
	1666	13	4:D	3	YPOS2 : INTEGER;			
	1667	13	4:D	4	XPOS2 : INTEGER;			
	1668	13	4:D	5	FIGHTXXX : ARRAY[0..19, 0..19] OF BOOLEAN;			
	1669	13	4:D	405	(* NOT PACKED (!) *)			
	1670	13	4:D	405				
	1671	13	5:D	1	PROCEDURE FNDFIGHT; (* P010705 *)			
	1672	13	5:D	1				
	1673	13	5:D	1	VAR			
	1674	13	5:D	1	ALL20X20 : INTEGER;			
	1675	13	5:D	2				
	1676	13	5:0	0	BEGIN (* FNDFIGHT *)			
	1677	13	5:1	0	XPOS := RAND MOD 20;			
	1678	13	5:1	10	YPOS := RAND MOD 20;			
	1679	13	5:1	20	FOR ALL20X20 := 1 TO 400 DO			
	1680	13	5:2	33	BEGIN			
	1681	13	5:3	33	IF MAZE.FIGHTS[XPOS][YPOS] = 1 THEN			
	1682	13	5:4	53	BEGIN			
	1683	13	5:5	53	IF NOT FIGHTXXX[XPOS][YPOS] THEN			
	1684	13	5:6	70	BEGIN			
	1685	13	5:7	70	BFIGHT := TRUE;			
	1686	13	5:7	74	EXIT(FNDFIGHT)			
	1687	13	5:6	78	END			
	1688	13	5:4	78	END;			
	1689	13	5:4	78				
	1690	13	5:3	78	XPOS := XPOS + 1;			
	1691	13	5:3	86	IF XPOS = 20 THEN			
	1692	13	5:4	93	BEGIN			
	1693	13	5:5	93	XPOS := XPOS - 20;			
	1694	13	5:5	101	YPOS := YPOS + 1;			
	1695	13	5:5	109	IF YPOS = 20 THEN			
	1696	13	5:6	116	YPOS := YPOS - 20			
	1697	13	5:4	119	END;			
	1698	13	5:4	124				
	1699	13	5:2	124	END;			
	1700	13	5:2	131				
	1701	13	5:1	131	BFIGHT := FALSE			
	1702	13	5:1	131				
	1703	13	5:0	131	END; (* FNDFIGHT *)			
	1704	13	5:0	150				
	1705	13	5:0	150				
	1706	13	6:D	1	PROCEDURE SETFIGH2(XPOSORIG : INTEGER; (* P010706 *)			
	1707	13	6:D	2	YPOSORIG : INTEGER);			

1708	13	6:D	3					
1709	13	6:D	3	VAR				
1710	13	6:D	3		PREVLOCI	:	INTEGER;	
1711	13	6:D	4		CURRLOCI	:	INTEGER;	
1712	13	6:D	5		DIST2GO	:	INTEGER;	
1713	13	6:D	6		FROM	:	INTEGER;	
1714	13	6:D	7		PREVY	:	INTEGER;	
1715	13	6:D	8		PREVX	:	INTEGER;	
1716	13	6:D	9					
1717	13	6:D	9		DISTTAB	:	STRING[100];	
1718	13	6:D	60		FROMTAB	:	STRING[100];	
1719	13	6:D	111		PREVYTAB	:	STRING[100];	
1720	13	6:D	162		PREVXTAB	:	STRING[100];	
1721	13	6:D	213					
1722	13	6:D	213					
1723	13	7:D	1	PROCEDURE	CHECKLOC(NEWX	:	INTEGER; (* P010707 *)	
1724	13	7:D	2		NEWY	:	INTEGER;	
1725	13	7:D	3		WALL	:	TWALL;	
1726	13	7:D	4		FROMDIR	:	INTEGER;	
1727	13	7:D	5		DIST2GO	:	INTEGER);	
1728	13	7:D	6					
1729	13	7:0	0	BEGIN	(* CHECKLOC *)			
1730	13	7:1	0		IF WALL <> OPEN	THEN		
1731	13	7:2	5		EXIT(CHECKLOC);			
1732	13	7:1	9		IF DIST2GO = 1	THEN (* STEP FROM 4 DOWN TO 1 AWAY *)		
1733	13	7:2	14		EXIT(CHECKLOC);			
1734	13	7:1	18		NEWX := (NEWX + 20) MOD 20;			
1735	13	7:1	25		NEWY := (NEWY + 20) MOD 20;			
1736	13	7:1	32		IF (MAZE.FIGHTS[NEWX][NEWY] <> 1) OR			
1737	13	7:1	46		(FIGHTXXX[NEWX][NEWY])	THEN		
1738	13	7:2	59		EXIT(CHECKLOC);			
1739	13	7:2	63					
1740	13	7:1	63		PREVXTAB[CURRLOCI]	:=	CHR(NEWX);	
1741	13	7:1	72		PREVYTAB[CURRLOCI]	:=	CHR(NEWY);	
1742	13	7:1	80		FROMTAB[CURRLOCI]	:=	CHR(FROMDIR);	
1743	13	7:1	88		DISTTAB[CURRLOCI]	:=	CHR(DIST2GO - 1);	
1744	13	7:1	98		CURRLOCI := (CURRLOCI + 1) MOD 100			
1745	13	7:0	103	END;	(* CHECKLOC *)			
1746	13	7:0	120					
1747	13	7:0	120					
1748	13	6:0	0	BEGIN	(* SETFIGH2 *)			
1749	13	6:0	0					
1750	13	6:0	0		(* WE'VE FOUND A LOCATION FOR A FIGHT *)			
1751	13	6:0	0		(* NOW SET UP SURROUNDING LOCATIONS *)			
1752	13	6:0	0		(* NEVER MORE THAN 3 STEPS AWAY FROM ORIGIN *)			
1753	13	6:0	0					
1754	13	6:1	0		CURRLOCI := 0;			
1755	13	6:1	3		PREVLOCI := 0;			
1756	13	6:1	6		PREVXTAB[CURRLOCI]	:=	CHR(XPOSORIG);	
1757	13	6:1	12		PREVYTAB[CURRLOCI]	:=	CHR(YPOSORIG);	
1758	13	6:1	17		FROMTAB[CURRLOCI]	:=	CHR(-1);	
1759	13	6:1	23		DISTTAB[CURRLOCI]	:=	CHR(4);	
1760	13	6:1	28		CURRLOCI := 1;			
1761	13	6:1	31		WHILE CURRLOCI <> PREVLOCI	DO		
1762	13	6:2	36		BEGIN			
1763	13	6:3	36		PREVX := ORD(PREVXTAB[PREVLOCI]);			
1764	13	6:3	43		PREVY := ORD(PREVYTAB[PREVLOCI]);			

1765	13	6:3	49	FROM := ORD(FROMTAB[PREVLOCI]);		
1766	13	6:3	55	DIST2GO := ORD(DISTTAB[PREVLOCI]);		
1767	13	6:3	61	PREVLOCI := (PREVLOCI + 1) MOD 100;		
1768	13	6:3	68	FIGHTXXX[PREVX][PREVY] := TRUE;		
1769	13	6:3	79	IF FROM <> 3 THEN		
1770	13	6:4	84	CHECKLOC(PREVX + 1, PREVY, MAZE.E[PREVX][PREVY],		
1771	13	6:4	99	1, DIST2GO);		
1772	13	6:3	103	IF FROM <> 1 THEN		
1773	13	6:4	108	CHECKLOC(PREVX - 1, PREVY, MAZE.W[PREVX][PREVY],		
1774	13	6:4	123	3, DIST2GO);		
1775	13	6:3	127	IF FROM <> 0 THEN		
1776	13	6:4	132	CHECKLOC(PREVX, PREVY - 1, MAZE.S[PREVX][PREVY],		
1777	13	6:4	147	2, DIST2GO);		
1778	13	6:3	151	IF FROM <> 2 THEN		
1779	13	6:4	156	CHECKLOC(PREVX, PREVY + 1, MAZE.N[PREVX][PREVY],		
1780	13	6:4	172	0, DIST2GO)		
1781	13	6:2	174	END;		
1782	13	6:0	178	END; (* SETFIGH2 *)		
1783	13	6:0	194			
1784	13	6:0	194			
1785	13	4:0	0	BEGIN (* SETFIGHT *)		
1786	13	4:1	0	DISPMSG(211, 12); (* LAYING OUT PATROL AREAS! *)		
1787	13	4:1	6	FIZZLES := 0;		
1788	13	4:1	9	FILLCHAR(FIGHTXXX, 800, 0);		
1789	13	4:1	18	BFIGHT := TRUE;		
1790	13	4:1	22	FOR XPOS2 := 1 TO 16 DO		
1791	13	4:2	36	BEGIN		
1792	13	4:3	36	IF BFIGHT THEN		
1793	13	4:4	41	BEGIN		
1794	13	4:5	41	FNDFIGHT;		
1795	13	4:5	43	IF BFIGHT THEN		
1796	13	4:6	48	SETFIGH2(XPOS, YPOS)		
1797	13	4:4	50	END;		
1798	13	4:2	52	END;		
1799	13	4:2	59			
1800	13	4:1	59	DISPMSG(212, 18); (* SETTING UP THE TRAPS! *)		
1801	13	4:1	65			
1802	13	4:1	65	FOR XPOS2 := 0 TO 19 DO		
1803	13	4:2	79	BEGIN		
1804	13	4:3	79	FOR YPOS2 := 0 TO 19 DO		
1805	13	4:4	93	BEGIN		
1806	13	4:5	93	IF MAZE.SQRETYPE[MAZE.SQREXTRA[XPOS2][YPOS2]]		
1807	13	4:5	112	= ENCOUNTE THEN		
1808	13	4:6	117	BEGIN		
1809	13	4:7	117	IF NOT FIGHTXXX[XPOS2][YPOS2] THEN		
1810	13	4:8	129	SETFIGH2(XPOS2, YPOS2)		
1811	13	4:6	131	END		
1812	13	4:5	133	ELSE		
1813	13	4:6	135	BEGIN		
1814	13	4:7	135	IF MAZE.SQRETYPE[MAZE.SQREXTRA[XPOS2][YPOS2]]		
1815	13	4:7	154	= SCNMSG THEN		
1816	13	4:8	159	BEGIN		
1817	13	4:9	159	IF MAZE.AUX2[MAZE.SQREXTRA[XPOS2][YPOS2]]		
1818	13	4:9	177	= 600 THEN		
1819	13	4:0	184	IF NOT FIGHTXXX[XPOS2][YPOS2] THEN		
1820	13	4:1	196	SETFIGH2(XPOS2, YPOS2)		
1821	13	4:8	198	END;		

1822	13	4:6	200	END;				
1823	13	4:4	200	END;				
1824	13	4:2	207	END;				
1825	13	4:2	214					
1826	13	4:1	214	FOR XPOS2 := 0 TO 19 DO				
1827	13	4:2	228	FOR YPOS2 := 0 TO 19 DO				
1828	13	4:3	242	FIGHTMAP[XPOS2][YPOS2] := FIGHTXXX[XPOS2][YPOS2];				
1829	13	4:3	276					
1830	13	4:0	276	END; (* SETFIGHT *)				
1831	13	4:0	300					
1832	13	4:0	300					
1833	13	8:D	1	PROCEDURE INIT; (* P010708 *)				
1834	13	8:D	1					
1835	13	8:D	1	VAR				
1836	13	8:D	1	UNUSED : INTEGER;				
1837	13	8:D	2	UNUSED2 : INTEGER;				
1838	13	8:D	3	INDX : INTEGER;				
1839	13	8:D	4	LEVCHK : BOOLEAN;				
1840	13	8:D	5					
1841	13	8:0	0	BEGIN (* INIT *)				
1842	13	8:1	0	LEVCHK := (MAZELEV = 1) OR (MAZELEV >= 12); (* MAZELEV STARTS AT 11 *)				
1843	13	8:1	9	DISPMMSG(210, 6); (* SUMMONING THE GUARDIANS! *)				
1844	13	8:1	15	FOR INDX := 0 TO 511 DO				
1845	13	8:2	28	BEGIN				
1846	13	8:3	28	BASE814[INDX] := 0;				
1847	13	8:3	37	BASE87B[INDX] := FALSE				
1848	13	8:2	44	END;				
1849	13	8:1	53	IF LEVCHK THEN				
1850	13	8:2	56	BEGIN				
1851	13	8:3	56	BASE814[0] := 5;				
1852	13	8:3	65	BASE87B[0] := TRUE				
1853	13	8:2	72	END				
1854	13	8:0	74	END; (* INIT *)				
1855	13	8:0	88					
1856	13	8:0	88					
1857	13	9:D	1	PROCEDURE EXT2SHOP; (* P010709 *)				
1858	13	9:D	1					
1859	13	9:0	0	BEGIN (* EXT2SHOP *)				
1860	13	9:1	0	BASE13 := 8;				
1861	13	9:1	3	EXIT(UTILITIE)				
1862	13	9:0	7	END; (* EXT2SHOP *)				
1863	13	9:0	20					
1864	13	9:0	20					
1865	13	10:D	1	PROCEDURE TICKETS; (* P01070A *)				
1866	13	10:D	1					
1867	13	10:D	1	VAR				
1868	13	10:D	1	QUADCNT : INTEGER;				
1869	13	10:D	2	VALCODE : INTEGER;				
1870	13	10:D	3	MSG3R : INTEGER;				
1871	13	10:D	4	MSG2R : INTEGER;				
1872	13	10:D	5	MSG1R : INTEGER;				
1873	13	10:D	6	MSG3L : INTEGER;				
1874	13	10:D	7	MSG2L : INTEGER;				
1875	13	10:D	8	MSG1L : INTEGER;				
1876	13	10:D	9	MSG3 : INTEGER;				
1877	13	10:D	10	MSG2 : INTEGER;				
1878	13	10:D	11	MSG1 : INTEGER;				

1879	13	10:D	12						
1880	13	10:D	12						
1881	13	11:D	3	FUNCTION	STR2NUM(VAR NUMSTR : TLONGSTR) : INTEGER; (* P01070B *)				
1882	13	11:D	4						
1883	13	11:D	4	VAR					
1884	13	11:D	4		RESULT : INTEGER;				
1885	13	11:D	5		IPOS : INTEGER;				
1886	13	11:D	6						
1887	13	11:0	0	BEGIN	(* STR2NUM *)				
1888	13	11:1	0		STR2NUM := -1;				
1889	13	11:1	4		RESULT := 0;				
1890	13	11:1	7	FOR	IPOS := 1 TO LENGTH(NUMSTR) DO				
1891	13	11:2	20		IF (NUMSTR[IPOS] >= '0') AND (NUMSTR[IPOS] <= '9') THEN				
1892	13	11:3	33		RESULT := 10 * RESULT + ORD(NUMSTR[IPOS]) - ORD('0')				
1893	13	11:2	41	ELSE					
1894	13	11:3	46		EXIT(STR2NUM);				
1895	13	11:1	57		STR2NUM := RESULT				
1896	13	11:0	57	END;	(* STR2NUM *)				
1897	13	11:0	74						
1898	13	11:0	74						
1899	13	12:D	1	PROCEDURE	GET2NUMS(MSGOFF : INTEGER; (* P01070C *)				
1900	13	12:D	2		VAR FIRSTNUM : INTEGER;				
1901	13	12:D	3		VAR SECONDNM : INTEGER);				
1902	13	12:D	4						
1903	13	12:0	0	BEGIN	(* GET2NUMS *)				
1904	13	12:1	0		GETMSGTX(BASE47, 28001 + MSGOFF); (* SPECIAL 28000 + *)				
1905	13	12:1	10		MOVELEFT(BASE47[1], FIRSTNUM, 2);				
1906	13	12:1	18		MOVELEFT(BASE47[3], SECONDNM, 2)				
1907	13	12:0	26	END;	(* GET2NUMS *)				
1908	13	12:0	38						
1909	13	12:0	38						
1910	13	13:D	3	FUNCTION	MULTMOD(NUM1 : INTEGER; (* P01070D *)				
1911	13	13:D	4		NUM2 : INTEGER) : INTEGER;				
1912	13	13:D	5						
1913	13	13:D	5		(* MULTIPLY 2 NUMBERS, AND MOD BY 10000 *)				
1914	13	13:D	5						
1915	13	13:D	5	VAR					
1916	13	13:D	5		ANSWER : INTEGER;				
1917	13	13:D	6						
1918	13	13:0	0	BEGIN	(* MULTMOD *)				
1919	13	13:1	0		ANSWER := 0;				
1920	13	13:1	3	WHILE	NUM2 > 0 DO (* MULTIPLY BY SUCCESSIVE ADDITIONS *)				
1921	13	13:2	8	BEGIN					
1922	13	13:3	8		ANSWER := (ANSWER + NUM1) MOD 10000;				
1923	13	13:3	17		NUM2 := NUM2 - 1				
1924	13	13:2	18	END;					
1925	13	13:1	24		MULTMOD := ANSWER				
1926	13	13:0	24	END;	(* MULTMOD *)				
1927	13	13:0	42						
1928	13	13:0	42						
1929	13	10:0	0	BEGIN	(* TICKETS *)				
1930	13	10:1	0		GETMSGTX(BASE47, 28000); (* SPECIAL 28000 MSG! *)				
1931	13	10:1	8		MOVELEFT(BASE47[1], QUADCNT, 2); (* 28000: \$02 \$3C \$00 *)				
1932	13	10:1	17			(* SEE HUFFMAN1TO32766.TXT *)			
1933	13	10:1	17			(* \$3C = 60. *)			
1934	13	10:1	17		QUADCNT := QUADCNT DIV 3; (* 60 DIV 3 = 20. *)				
1935	13	10:1	22		MSG1 := RAND MOD QUADCNT; (* 0..19 *)				

1936	13	10:1	31	MSG2 := RAND MOD QUADCNT; (* 0..19 *)			
1937	13	10:1	40	MSG3 := RAND MOD QUADCNT; (* 0..19 *)			
1938	13	10:1	49	GET2NUMS(3 * MSG1, MSG1L, MSG1R); (* MSG#, [1], [2] RETURNED *)			
1939	13	10:1	58	GET2NUMS(1 + 3 * MSG2, MSG2L, MSG2R);			
1940	13	10:1	69	GET2NUMS(2 + 3 * MSG3, MSG3L, MSG3R);			
1941	13	10:1	80	VALCODE := 1000 +			
1942	13	10:1	83	(MULTMOD(MSG1R, 11) + MULTMOD(MSG2R, 7) + MSG3R) MOD 9000;			
1943	13	10:1	105				
1944	13	10:1	105	REPEAT			
1945	13	10:2	105	CLEARWIN(MAINWIN, TRUE);			
1946	13	10:2	111	MVCURSOR(MAINWIN, 0, 4);			
1947	13	10:2	118	DISP1LIN(MAINWIN, 550); (* TICKETS...TICKETS, PLEASE! *)			
1948	13	10:2	126	DISP1LIN(MAINWIN, 551); (* ENTER THE VALIDATION CODE OF THIS *)			
1949	13	10:2	134	DISP1LIN(MAINWIN, 552); (* MORDORCHARGE CARD TO CONTINUE *)			
1950	13	10:2	142	MVCURSOR(MAINWIN, 9, 8);			
1951	13	10:2	149	PRINTNUM(MAINWIN, MSG1L, 5);			
1952	13	10:2	156	PRINTNUM(MAINWIN, MSG2L, 5);			
1953	13	10:2	163	PRINTNUM(MAINWIN, MSG3L, 5);			
1954	13	10:2	170	PRINTCR(MAINWIN);			
1955	13	10:2	175	PRINTCR(MAINWIN);			
1956	13	10:2	180	DISP1MSG(MAINWIN, 553); (* VALIDATION CODE > *)			
1957	13	10:2	188	SOLICIT(MAINWIN, BASE47, 40);			
1958	13	10:2	196	IF VALCODE = STR2NUM(BASE47) THEN			
1959	13	10:3	206	EXIT(TICKETS);			
1960	13	10:2	210	PRINTCR(MAINWIN);			
1961	13	10:2	215	PRINTCR(MAINWIN);			
1962	13	10:2	220	DISP1LIN(MAINWIN, 554); (* THE NUMBER YOU HAVE ENTERED IS NOT *)			
1963	13	10:2	228	DISP1LIN(MAINWIN, 555); (* CORRECT. PRESS ~ TO TRY AGAIN. *)			
1964	13	10:2	236	GETCR			
1965	13	10:1	236	UNTIL FALSE			
1966	13	10:1	239				
1967	13	10:0	239	END; (* TICKETS *)			
1968	13	10:0	256				
1969	13	10:0	256				
1970	13	2:0	0	BEGIN (* P010702 *)			
1971	13	2:1	0	TREBORX := (RAND MOD 100) - 50;			
1972	13	2:1	12	TREBORY := (RAND MOD 100) - 50;			
1973	13	2:1	24	TREBMSG := 2500; (* W..E..R..D..N..A.., AND THE OTHERS *)			
1974	13	2:1	30	CHGMSGP2 := 16;			
1975	13	2:1	34	IF MAZELEV = 0 THEN (* MAZELEV STARTS AT 11 *)			
1976	13	2:2	39	EXT2SHOP;			
1977	13	2:2	41				
1978	13	2:1	41	IF MAZELEV < 0 THEN			
1979	13	2:2	46	BEGIN			
1980	13	2:3	46	MAZELEV := -(1 * MAZELEV);			
1981	13	2:3	52	BASE13 := 11			
1982	13	2:2	52	END			
1983	13	2:1	55	ELSE			
1984	13	2:2	57	BASE13 := 5;			
1985	13	2:2	60				
1986	13	2:1	60	IF CHARACTER[6].CHARLEV < 12 - MAZELEV THEN			
1987	13	2:2	74	IF CHARACTER[6].CHARLEV <> 0 THEN			
1988	13	2:3	86	IF MAZELEV > 4 THEN			
1989	13	2:4	91	TICKETS;			
1990	13	2:4	93				
1991	13	2:1	93	MOVELEFT(BASE55B[GETREC(1, MAZELEV - 1, sizeof(MAZE))],			
1992	13	2:1	108	MAZE,			

	1993	13	2:1	111	SIZEOF(MAZE));			
	1994	13	2:1	116				
	1995	13	2:1	116	CLEARWIN(MAINWIN, TRUE);			
	1996	13	2:1	122	INIT;			
	1997	13	2:1	124	SETFIGHT;			
	1998	13	2:1	126	CLEARWIN(MAINWIN, TRUE);			
	1999	13	2:1	132	EXIT(UTILITIE)			
	2000	13	2:1	136				
	2001	13	2:0	136	END; (* P010702 *)			
	2002	13	2:0	148				
	2003	13	2:0	148				
	2004	13	14:D	1	PROCEDURE P01070E;			
	2005	13	15:D	1	PROCEDURE P01070F;			
	2006	13	16:D	1	PROCEDURE P010710;			
	2007	13	17:D	1	PROCEDURE P010711;			
	2008	13	17:0	0	BEGIN (* P010711 *)			
	2009	13	17:0	0	END; (* P010711 *)			
	2010	13	18:D	1	PROCEDURE P010712;			
	2011	13	18:0	0	BEGIN (* P010712 *)			
	2012	13	18:0	0	END; (* P010712 *)			
	2013	13	19:D	1	PROCEDURE P010713;			
	2014	13	19:0	0	BEGIN (* P010713 *)			
	2015	13	19:0	0	END; (* P010713 *)			
	2016	13	20:D	1	PROCEDURE P010714;			
	2017	13	20:0	0	BEGIN (* P010714 *)			
	2018	13	20:0	0	END; (* P010714 *)			
	2019	13	21:D	1	PROCEDURE P010715;			
	2020	13	21:0	0	BEGIN (* P010715 *)			
	2021	13	21:0	0	END; (* P010715 *)			
	2022	13	22:D	1	PROCEDURE P010716;			
	2023	13	22:0	0	BEGIN (* P010716 *)			
	2024	13	22:0	0	END; (* P010716 *)			
	2025	13	23:D	1	PROCEDURE P010717;			
	2026	13	23:0	0	BEGIN (* P010717 *)			
	2027	13	23:0	0	END; (* P010717 *)			
	2028	13	16:0	0	BEGIN (* P010710 *)			
	2029	13	16:0	0	END; (* P010710 *)			
	2030	13	15:0	0	BEGIN (* P01070F *)			
	2031	13	15:0	0	END; (* P01070F *)			
	2032	13	24:D	1	PROCEDURE P010718;			
	2033	13	24:0	0	BEGIN (* P010718 *)			
	2034	13	24:0	0	END; (* P010718 *)			
	2035	13	25:D	1	PROCEDURE P010719;			
	2036	13	25:0	0	BEGIN (* P010719 *)			
	2037	13	25:0	0	END; (* P010719 *)			
	2038	13	26:D	1	PROCEDURE P01071A;			
	2039	13	26:0	0	BEGIN (* P01071A *)			
	2040	13	26:0	0	END; (* P01071A *)			
	2041	13	27:D	1	PROCEDURE P01071B;			
	2042	13	28:D	1	PROCEDURE P01071C;			
	2043	13	28:0	0	BEGIN (* P01071C *)			
	2044	13	28:0	0	END; (* P01071C *)			
	2045	13	27:0	0	BEGIN (* P010718 *)			
	2046	13	27:0	0	END; (* P010718 *)			
	2047	13	29:D	1	PROCEDURE P01071D;			
	2048	13	29:0	0	BEGIN (* P01071D *)			
	2049	13	29:0	0	END; (* P01071D *)			

2050	13	30:D	1	PROCEDURE P01071E;				
2051	13	30:0	0	BEGIN (* P01071E *)				
2052	13	30:0	0	END; (* P01071E *)				
2053	13	14:0	0	BEGIN (* P01070E *)				
2054	13	14:0	0	END; (* P01070E *)				
2055	13	31:D	1	PROCEDURE P01071F;				
2056	13	31:0	0	BEGIN (* P01071F *)				
2057	13	31:0	0	END; (* P01071F *)				
2058	13	32:D	1	PROCEDURE P010720(MP01 : INTEGER);				
2059	13	32:0	0	BEGIN (* P010720 *)				
2060	13	32:0	0	END; (* P010720 *)				
2061	13	32:0	12					
2062	13	32:0	12					
2063	13	1:0	0	BEGIN (* UTILITIE MAIN LINE P010701 *)				
2064	13	1:0	0					
2065	13	1:1	0	CASE BASE13 OF				
2066	13	1:1	4	7: P010702;				
2067	13	1:1	8	11, 18: P01071F;				
2068	13	1:1	12	12: P010720(6);				
2069	13	1:1	17	END				
2070	13	1:1	48					
2071	13	1:0	48	END; (* UTILITIE MAIN LINE P010701 *)				
2072	13	1:0	60					
2073	13	1:0	60	(* \$I WIZ4B:UTILITIE *)				
2074	13	1:0	60					
2074	13	1:0	60	(* \$I WIZ4B:SHOPS *)				
2075	13	1:0	60					
2076	14	1:D	1	SEGMENT PROCEDURE SHOPS; (* P010801 *)				
2077	14	1:D	1					
2078	14	2:D	1	PROCEDURE WERDNA00(MSGNUM1 : INTEGER; (* P010802 *)				
2079	14	2:D	2	MSGNUM2 : INTEGER);				
2080	14	2:D	3					
2081	14	2:D	3	(* WERDNA00(0, 510) "OH NO!!! THE NIGHTMARES ... *)				
2082	14	2:D	3	(* WERDNA00(520, 530) "AT LAST YOU AWAKEN" "BUT FIRST YOU HAVE TO" *)				
2083	14	2:D	3					
2084	14	2:D	3					
2085	14	2:D	3	VAR				
2086	14	2:D	3	UNUSED : INTEGER;				
2087	14	2:D	4	LINECNT : INTEGER;				
2088	14	2:D	5	MSGLEN : INTEGER;				
2089	14	2:D	6					
2090	14	2:D	6					
2091	14	3:D	1	PROCEDURE PIC2MAIN(CHAR1 : INTEGER; (* P010803 *)				
2092	14	3:D	2	CHAR2 : INTEGER;				
2093	14	3:D	3	CHAR3 : INTEGER;				
2094	14	3:D	4	CHAR4 : INTEGER);				
2095	14	3:D	5					
2096	14	3:D	5	(* INDEXES INTO 200.MONSTERS *)				
2097	14	3:D	5					
2098	14	3:D	5	(* 41, 42, 43, 44 == WERDNA ON PLATFORM *)				
2099	14	3:D	5	(* 45, 46, 47, 48 == TREBOR'S GHOST *)				
2100	14	3:D	5					
2101	14	3:D	5	VAR				
2102	14	3:D	5	INDX : INTEGER;				
2103	14	3:D	6	CURRLINE : INTEGER;				
2104	14	3:D	7	MBHSIZE : INTEGER;				
2105	14	3:D	8	CHAR2XB : INTEGER;				

2106	14	3:D	9	CHAR2XA	: INTEGER;			
2107	14	3:D	10	UNUSED	: INTEGER;			
2108	14	3:D	11	CHARX	: INTEGER;			
2109	14	3:D	12	CHAR2XPS	: INTEGER;			
2110	14	3:D	13	LINEX	: INTEGER;			
2111	14	3:D	14	MBSTR	: STRING[78];	(* MULTI-BYTE STRING *)		
2112	14	3:D	54					
2113	14	3:D	54					
2114	14	3:0	0	BEGIN	(* PIC2MAIN *)			
2115	14	3:1	0	BASE47[0]	:= CHR(CHAR1);			
2116	14	3:1	5	BASE47[1]	:= CHR(CHAR2);			
2117	14	3:1	10	BASE47[2]	:= CHR(CHAR3);			
2118	14	3:1	15	BASE47[3]	:= CHR(CHAR4);			
2119	14	3:1	20					
2120	14	3:1	20		(* PREPARE WINDOW BUFFER FOR MB CHARS (#\$01, #\$20) *)			
2121	14	3:1	20	UNITWRITE(	BASE12, BASE47, 17, ORD(MAINWIN));			
2122	14	3:1	31					
2123	14	3:1	31	(*				
2124	14	3:1	31	DISPLAY	'PICTURE' ON MAIN WINDOW:			
2125	14	3:1	31	WERDNA	DEAD LAYING ON PLATFORM			
2126	14	3:1	31	-OR-				
2127	14	3:1	31	GHOST	OF TREBOR			
2128	14	3:1	31	*)				
2129	14	3:1	31	UNITWRITE(	BASE12, BASE47, 13, ORD(MAINWIN));			
2130	14	3:1	42					
2131	14	3:1	42	MBHSIZE	:= 2 * (MAINWIN^.HEAD.HSIZE - 2);	(* EXCLUDE 'FRAME' *)		
2132	14	3:1	55	CURRLINE	:= 9 * MBHSIZE;			
2133	14	3:1	60					
2134	14	3:1	60	FOR LINEX	:= 9 TO 13 DO			
2135	14	3:2	72	BEGIN				
2136	14	3:3	72	CHAR2XPS	:= 0;			
2137	14	3:3	75	FOR CHARX	:= 0 TO MAINWIN^.HEAD.HSIZE - 3 DO			
2138	14	3:4	95	BEGIN				
2139	14	3:5	95	CHAR2XA	:= CURRLINE + CHARX + CHARX;			
2140	14	3:5	102	CHAR2XB	:= CHAR2XA + 1;			
2141	14	3:5	107	IF	MAINWIN^.DATA[CHAR2XB] < CHR(128) THEN			
2142	14	3:6	119	IF	MAINWIN^.DATA[CHAR2XB] <> CHR(0) THEN			
2143	14	3:7	129	IF	MAINWIN^.DATA[CHAR2XB] <> ' ' THEN			
2144	14	3:8	139	IF (NOT	BAPPLE) OR			
2145	14	3:8	143	(MAINWIN^.DATA[	CHAR2XB] <> CHR(1)) THEN			
2146	14	3:9	154	BEGIN				
2147	14	3:0	154	MBSTR[CHAR2XPS]	:= MAINWIN^.DATA[CHAR2XA];			
2148	14	3:0	164	MBSTR[CHAR2XPS + 1]	:= MAINWIN^.DATA[CHAR2XB];			
2149	14	3:0	176	CHAR2XPS	:= CHAR2XPS + 2			
2150	14	3:9	177	END;				
2151	14	3:4	181	END;				
2152	14	3:4	188					
2153	14	3:3	188	FOR INDX	:= 0 TO (MBHSIZE DIV 2) - 1 DO			
2154	14	3:4	204	BEGIN				
2155	14	3:5	204	MAINWIN^.DATA[	CURRLINE + INDX + INDX] := ' ';			
2156	14	3:5	215	MAINWIN^.DATA[	CURRLINE + INDX + INDX + 1] := CHR(0)			
2157	14	3:4	227	END;				
2158	14	3:4	235					
2159	14	3:4	235	(*	'CENTER' THE PICTURE IN THE WINDOW *)			
2160	14	3:3	235	MOVELEFT(	MBSTR,			
2161	14	3:3	238	MAINWIN^.DATA[
2162	14	3:3	242	(CURRLINE +				

	2163	14	3:3	243	(2 * (MBHSIZE DIV 4))) - (2 * (CHAR2XPS DIV 4))],
	2164	14	3:3	255	CHAR2XPS
	2165	14	3:3	255);
	2166	14	3:3	258	CURRLINE := CURRLINE + MBHSIZE
	2167	14	3:2	259	END;
	2168	14	3:1	270	UNITWRITE(BASE12, MAINWIN^, 3, 0) (* DISPLAY MAIN WINDOW *)
	2169	14	3:0	280	END; (* PIC2MAIN *)
	2170	14	3:0	300	
	2171	14	3:0	300	
	2172	14	2:0	0	BEGIN (* WERDNA00 *)
	2173	14	2:1	0	IF (MAZEX = TREBORX) AND (MAZEY = TREBORY) THEN
	2174	14	2:2	13	BEGIN
	2175	14	2:3	13	CLEARWIN(MAINWIN, TRUE);
	2176	14	2:3	19	PIC2MAIN(45, 46, 47, 48); (* GHOST OF TREBOR *)
	2177	14	2:3	25	FOR MSGLEN := 0 TO 5 DO
	2178	14	2:3	36	(* CHECK KEYBOARD FOR INPUT. WAIT A BIT. UPDATE RNG *)
	2179	14	2:4	36	PAUSE2
	2180	14	2:2	36	END;
	2181	14	2:1	46	CLEARWIN(MAINWIN, TRUE);
	2182	14	2:1	52	PIC2MAIN(41, 42, 43, 44); (* DEAD WERDNA LAYING ON PLATFORM *)
	2183	14	2:1	58	
	2184	14	2:1	58	IF MSGNUM1 <> 0 THEN (* AT LAST YOU AWAKEN *)
	2185	14	2:2	63	BEGIN
	2186	14	2:3	63	MSGLEN := 0;
	2187	14	2:3	66	GETMSGTX(BASE47, MSGNUM1);
	2188	14	2:3	72	WHILE BASE47 <> '**ERR**' DO
	2189	14	2:4	88	BEGIN
	2190	14	2:5	88	MVCURSOR(MAINWIN, 0, MSGLEN);
	2191	14	2:5	95	CENTSTR(MAINWIN, BASE47);
	2192	14	2:5	102	MSGLEN := MSGLEN + 1;
	2193	14	2:5	107	GETMSGTX(BASE47, MSGNUM1 + MSGLEN)
	2194	14	2:4	112	END
	2195	14	2:2	115	END;
	2196	14	2:2	117	
	2197	14	2:1	117	IF MSGNUM2 <> 0 THEN (* ...BUT FIRST YOU HAVE TO REGAIN... *)
	2198	14	2:2	122	BEGIN (* -OR- "OH NO!!! THE NIGHTMARES AND..." *)
	2199	14	2:3	122	MSGLEN := 0;
	2200	14	2:3	125	GETMSGTX(BASE47, MSGNUM2);
	2201	14	2:3	131	WHILE BASE47 <> '**ERR**' DO
	2202	14	2:4	147	BEGIN
	2203	14	2:5	147	MSGLEN := MSGLEN + 1;
	2204	14	2:5	152	GETMSGTX(BASE47, MSGNUM2 + MSGLEN)
	2205	14	2:4	157	END;
	2206	14	2:3	162	FOR LINECNT := 0 TO MSGLEN - 1 DO
	2207	14	2:4	175	BEGIN
	2208	14	2:5	175	MVCURSOR(MAINWIN, 0,
	2209	14	2:5	178	MAINWIN^.HEAD.VSIZE - 2 - MSGLEN + LINECNT);
	2210	14	2:5	194	DISP1LIN(MAINWIN, MSGNUM2 + LINECNT)
	2211	14	2:4	199	END;
	2212	14	2:2	209	END;
	2213	14	2:2	209	
	2214	14	2:1	209	GETCR;
	2215	14	2:1	212	CLEARWIN(MAINWIN, TRUE)
	2216	14	2:0	215	END; (* WERDNA00 *)
	2217	14	2:0	238	
	2218	14	2:0	238	
	2219	14	4:D	1	PROCEDURE OHNO; (* P010804 *)

2220	14	4:D	1					
2221	14	4:D	1	VAR				
2222	14	4:D	1	UNUSED	: INTEGER;			
2223	14	4:D	2	UNUSED2	: ARRAY[0..5] OF INTEGER;			
2224	14	4:D	8					
2225	14	4:D	8					
2226	14	5:D	1	PROCEDURE WERDDEAD;	(* P010805 *)			
2227	14	5:D	1					
2228	14	5:D	1	VAR				
2229	14	5:D	1	POSSX	: INTEGER;			
2230	14	5:D	2					
2231	14	5:0	0	BEGIN (* WERDDEAD *)				
2232	14	5:1	0	WITH CHARACTER[6] DO				
2233	14	5:2	8	BEGIN				
2234	14	5:3	8	FOR POSSX := 1 TO POSS.POSSCNT DO				
2235	14	5:4	21	IF POSS.POSSESS[POSSX].EQINDEX > 4 THEN				
2236	14	5:5	34	POSS.POSSESS[POSSX].EQINDEX := 0;				
2237	14	5:3	53	STATUS := DEAD				
2238	14	5:2	56	END;				
2239	14	5:0	58	END; (* WERDDEAD *)				
2240	14	5:0	72					
2241	14	5:0	72					
2242	14	4:0	0	BEGIN (* OHNO *)				
2243	14	4:1	0	WERDDEAD;				
2244	14	4:1	2	PROTWIN(CHARSWIN, FALSE);				
2245	14	4:1	7	CLEARWIN(CHARSWIN, FALSE);				
2246	14	4:1	12	CLEARWIN(MAINWIN, TRUE);				
2247	14	4:1	18	FILLCHAR(UNUSED2, 12, 0);				
2248	14	4:1	25	WERDNA00(0, 510);	(* "OH NO!!! THE NIGHTMARES AND THE TORMENTS...")			
2249	14	4:1	31	BASE13 := 23;				
2250	14	4:1	34	EXIT(SHOPS)				
2251	14	4:0	38	END; (* OHNO *)				
2252	14	4:0	50					
2253	14	4:0	50					
2254	14	6:D	1	PROCEDURE SAVRESTR(SAVEFLAG : BOOLEAN);	(* P010806 *)			
2255	14	6:D	2					
2256	14	6:D	2	(* SAVEFLAG = FALSE === NEW GAME OR RESTORE GAME 1-8 *)				
2257	14	6:D	2	(* SAVEFLAG = TRUE === SAVE GAME *)				
2258	14	6:D	2	(* BASE38[6] = 0 FOR NEW GAME, OTHERWISE 1-8 *)				
2259	14	6:D	2					
2260	14	6:D	2	TYPE				
2261	14	6:D	2	TSRREC = RECORD				
2262	14	6:D	2	SRCHARTR : TCHAR;				
2263	14	6:D	2	MP16F : TWIZLONG;				
2264	14	6:D	2	MP172 : TWIZLONG;				
2265	14	6:D	2	MP175 : ARRAY[0..23] OF INTEGER;				
2266	14	6:D	2	MP18D : ARRAY[0..70] OF INTEGER;				
2267	14	6:D	2	MP1D4 : INTEGER;				
2268	14	6:D	2	END;				
2269	14	6:D	2					
2270	14	6:D	2	VAR				
2271	14	6:D	2	WERDNABL : INTEGER;				
2272	14	6:D	3	UNUSED : INTEGER;	(* MP03 *)			
2273	14	6:D	4	UNUSED2 : INTEGER;	(* MP04 *)			
2274	14	6:D	5	INDX : INTEGER;				
2275	14	6:D	6	SRBUFF : PACKED ARRAY[0..511] OF CHAR;				
2276	14	6:D	262	SPELLI : INTEGER;				

2277	14	6:D	263	SRREC : TSRREC; (* MP107 *)			
2278	14	6:D	469	SRBUFF2X : PACKED ARRAY[0..1023] OF CHAR;			
2279	14	6:D	981				
2280	14	6:D	981				
2281	14	7:D	1	PROCEDURE SRGLOBAL; (* P010807 *)			
2282	14	7:D	1				
2283	14	7:D	1	VAR			
2284	14	7:D	1	UNUSED : INTEGER;			
2285	14	7:D	2	FTINDX : INTEGER;			
2286	14	7:D	3				
2287	14	7:D	3				
2288	14	8:D	1	PROCEDURE FROMT01(VAR FROMTO : INTEGER; (* P010808 *)			
2289	14	8:D	2	TOFROM : INTEGER);			
2290	14	8:D	3				
2291	14	8:0	0	BEGIN (* FROMT01 *)			
2292	14	8:1	0	IF SAVEFLAG THEN			
2293	14	8:2	5	MOVELEFT(FROMTO, SRREC.MP18D[TOFROM], 2)			
2294	14	8:1	18	ELSE			
2295	14	8:2	20	MOVELEFT(SRREC.MP18D[TOFROM], FROMTO, 2)			
2296	14	8:0	33	END; (* FROMT01 *)			
2297	14	8:0	46				
2298	14	8:0	46				
2299	14	9:D	1	PROCEDURE FROMT02(VAR FROMTO : INTEGER; (* P010809 *)			
2300	14	9:D	2	TOFROM : INTEGER);			
2301	14	9:D	3				
2302	14	9:0	0	BEGIN (* FROMT02 *)			
2303	14	9:1	0	IF SAVEFLAG THEN			
2304	14	9:2	5	SRREC.MP18D[TOFROM] := FROMTO			
2305	14	9:1	12	ELSE			
2306	14	9:2	17	FROMTO := SRREC.MP18D[TOFROM]			
2307	14	9:0	25	END; (* FROMT02 *)			
2308	14	9:0	40				
2309	14	9:0	40				
2310	14	7:0	0	BEGIN (* SRGLOBAL *)			
2311	14	7:1	0	IF SAVEFLAG THEN			
2312	14	7:2	5	BEGIN			
2313	14	7:3	5	MOVELEFT(BASE42, SRREC.MP172, 6);			
2314	14	7:3	16	MOVELEFT(BASE3F, SRREC.MP16F, 6);			
2315	14	7:3	27	MOVELEFT(BASE147, SRREC.MP175, 48)			
2316	14	7:2	39	END			
2317	14	7:1	39	ELSE			
2318	14	7:2	41	BEGIN			
2319	14	7:3	41	MOVELEFT(SRREC.MP172, BASE42, 6);			
2320	14	7:3	52	MOVELEFT(SRREC.MP16F, BASE3F, 6);			
2321	14	7:3	63	MOVELEFT(SRREC.MP175, BASE147, 48);			
2322	14	7:2	75	END;			
2323	14	7:2	75				
2324	14	7:1	75	FROMT02(MAZEX, 1);			
2325	14	7:1	80	FROMT02(MAZEY, 2);			
2326	14	7:1	85	FROMT02(MAZELEV, 3);			
2327	14	7:1	90	FROMT02(DIRECTIO, 4);			
2328	14	7:1	95	FROMT01(INFOWOFF.I, 5);			
2329	14	7:1	100	FROMT01(BASE18.I, 6);			
2330	14	7:1	105	FROMT02(SAVEX, 7);			
2331	14	7:1	110	FROMT02(SAVEY, 8);			
2332	14	7:1	115	FROMT02(SAVELEV, 9);			
2333	14	7:1	120	FROMT02(ACMOD2, 10);			

2334	14	7:1	125	FROMTO2(LIGHT, 11);			
2335	14	7:1	130	FROMTO2(IDMONSTR, 12);			
2336	14	7:1	135	FROMTO2(TIMEDLAY, 13);			
2337	14	7:1	140	FROMTO2(BASE45, 14);			
2338	14	7:1	145	FROMTO2(BASE46, 15);			
2339	14	7:1	150	FROMTO2(BASE80B, 16);			
2340	14	7:1	156				
2341	14	7:1	156	FOR FTINDX := 1 TO 5 DO			
2342	14	7:2	167	FROMTO2(BASE7DC[FTINDX - 1], 19 + FTINDX);			
2343	14	7:2	187				
2344	14	7:1	187	FOR FTINDX := 1 TO 19 DO			
2345	14	7:2	198	FROMTO2(BLACKBOX[FTINDX - 1], 30 + FTINDX);			
2346	14	7:2	218				
2347	14	7:1	218	FOR FTINDX := 1 TO 19 DO			
2348	14	7:2	229	FROMTO2(BASE7F4[FTINDX - 1], 50 + FTINDX)			
2349	14	7:2	240				
2350	14	7:0	240	END; (* SRGLOBAL *)			
2351	14	7:0	268				
2352	14	7:0	268				
2353	14	6:0	0	BEGIN (* SAVRESTR *)			
2354	14	6:1	0	CLEARWIN(MAINWIN, TRUE);			
2355	14	6:1	6	WERDNABL := FINDFILE(DRIVE1, 'WERDNA.DATA');			
2356	14	6:1	28				
2357	14	6:1	28	WITH CHARACTER[6] DO (* WERDNA CHARACTER *)			
2358	14	6:2	37	BEGIN			
2359	14	6:3	37	IF SAVEFLAG THEN			
2360	14	6:4	40	BEGIN			
2361	14	6:4	40				
2362	14	6:4	40	(* SAVING A GAME *)			
2363	14	6:4	40				
2364	14	6:5	40	IF BASE38[6] <> 0 THEN			
2365	14	6:6	50	BEGIN			
2366	14	6:7	50	SRREC.SRCHARTR := CHARACTER[6];			
2367	14	6:7	61	SRGLOBAL;			
2368	14	6:7	63	FILLCHAR(SRBUFF, 512, 0);			
2369	14	6:7	72	SRREC.MP1D4 := 1787;			
2370	14	6:7	78	MOVELEFT(SRREC, SRBUFF, SIZEOF(TSRREC));			
2371	14	6:7	90	UNITWRITE(DRIVE1, SRBUFF, 512,			
2372	14	6:7	97	(WERDNABL + BASE38[6] - 1));			
2373	14	6:7	110	IF MAZELEV = 5 THEN			
2374	14	6:8	115	BEGIN			
2375	14	6:9	115	MOVELEFT(BASE55B[GETREC(1, 4, 1024)],			
2376	14	6:9	128	SRBUFF2X,			
2377	14	6:9	132	1024);			
2378	14	6:9	137				
2379	14	6:9	137	UNITWRITE(DRIVE1, SRBUFF2X, 1024,			
2380	14	6:9	145	(WERDNABL + 6) + (2 * BASE38[6]));			
2381	14	6:8	160	END;			
2382	14	6:6	160	END			
2383	14	6:4	160	END			
2384	14	6:4	160				
2385	14	6:3	160	ELSE			
2386	14	6:3	162				
2387	14	6:4	162	BEGIN			
2388	14	6:4	162				
2389	14	6:4	162	(* NEW GAME OR RESTORING A GAME *)			
2390	14	6:4	162				

2391	14	6:5	162	IF BASE38[6] = 0 THEN			
2392	14	6:5	172				
2393	14	6:5	172	(* NEW GAME *)			
2394	14	6:5	172				
2395	14	6:6	172	NAME := ''			
2396	14	6:5	175	ELSE			
2397	14	6:6	182	BEGIN			
2398	14	6:6	182				
2399	14	6:6	182	(* RESTORING GAME BASE38[6] === 1..8 *)			
2400	14	6:6	182				
2401	14	6:7	182	UNITREAD(DRIVE1, SRBUFF, 512, WERDNABL + BASE38[6] - 1);			
2402	14	6:7	202	MOVELEFT(SRBUFF, SRREC, SIZEOF(TSRREC));			
2403	14	6:7	214	IF SRREC.MP1D4 <> 1787 THEN			
2404	14	6:8	223	BEGIN			
2405	14	6:9	223	SRREC.MP1D4 := 1787;			
2406	14	6:9	229	FOR INDX := 1 TO 8 DO			
2407	14	6:0	243	SRREC.SRCHARTR.POSS.POSSESS[INDX].IDENTIF := FALSE;			
2408	14	6:8	262	END;			
2409	14	6:8	262				
2410	14	6:7	262	CHARACTR[6] := SRREC.SRCHARTR;			
2411	14	6:7	273	CHARACTR[6].LOSTXYL.POISNAMT[4] := 0;			
2412	14	6:7	288	SRGLOBAL;			
2413	14	6:7	290	IF MAZELEV = 5 THEN			
2414	14	6:8	295	BEGIN			
2415	14	6:9	295	UNITREAD(DRIVE1, SRBUFF2X, 1024,			
2416	14	6:9	303	((WERDNABL + 6) + (2 * BASE38[6]));			
2417	14	6:9	318				
2418	14	6:9	318	MOVELEFT(SRBUFF2X,			
2419	14	6:9	322	BASE55B[GETRECW(1, 4, 1024)],			
2420	14	6:9	335	1024)			
2421	14	6:8	340	END			
2422	14	6:6	340	END;			
2423	14	6:6	340				
2424	14	6:5	340	IF (NAME = '') OR (STATUS <> OK) THEN			
2425	14	6:6	358	BEGIN			
2426	14	6:6	358				
2427	14	6:6	358	(* NEW GAME; OR RESTORE GAME AND WERDNA WAS NOT OK *)			
2428	14	6:6	358				
2429	14	6:7	358	MAZEX := 10;			
2430	14	6:7	361	MAZEY := 9;			
2431	14	6:7	364	MAZELEV := 11;			
2432	14	6:7	367	DIRECTIO := 3;			
2433	14	6:7	370	INFOWOFF.B := FALSE;			
2434	14	6:7	373	BASE18.B := TRUE;			
2435	14	6:7	376	SAVEX := 10;			
2436	14	6:7	379	SAVEY := 9;			
2437	14	6:7	382	SAVELEV := 11;			
2438	14	6:7	385	ACMOD2 := 0;			
2439	14	6:7	388	LIGHT := 0;			
2440	14	6:7	391	IDMONSTR := 0;			
2441	14	6:7	394	TIMEDLAY := 1;			
2442	14	6:7	397	BASE45 := 0;			
2443	14	6:7	400	BASE46 := 0;			
2444	14	6:7	403	BASE80B := 0;			
2445	14	6:7	407				
2446	14	6:7	407	FOR INDX := 1 TO 5 DO			
2447	14	6:8	421	BASE7DC[INDX - 1] := 0;			

2448	14	6:8	438				
2449	14	6:7	438	FOR INDX := 1 TO 19 DO			
2450	14	6:8	452	BLACKBOX[INDX - 1] := 0;			
2451	14	6:8	469				
2452	14	6:7	469	FOR INDX := 1 TO 19 DO			
2453	14	6:8	483	BASE7F4[INDX - 1] := 0;			
2454	14	6:8	500				
2455	14	6:7	500	FOR INDX := 0 TO 2 DO			
2456	14	6:8	514	BEGIN			
2457	14	6:9	514	BASE42[INDX] := -1;			
2458	14	6:9	522	BASE3F[INDX] := 0;			
2459	14	6:9	529	BASE147[INDX] := ''			
2460	14	6:8	535	END;			
2461	14	6:8	547				
2462	14	6:7	547	NAME := 'WERDNA';			
2463	14	6:7	561				
2464	14	6:7	561	PASSWORD := '';			
2465	14	6:7	571				
2466	14	6:7	571	INMAZE := FALSE;			
2467	14	6:7	578	RACE := HUMAN;			
2468	14	6:7	585	CLASS := MAGE;			
2469	14	6:7	592	AGE := 5200;			
2470	14	6:7	601	STATUS := OK;			
2471	14	6:7	608	ALIGN := EVIL;			
2472	14	6:7	615				
2473	14	6:7	615	ATTRIB[STRENGTH] := 8;			
2474	14	6:7	626	ATTRIB[IQ] := 8;			
2475	14	6:7	637	ATTRIB[PIETY] := 8;			
2476	14	6:7	648	ATTRIB[VITALITY] := 8;			
2477	14	6:7	659	ATTRIB[AGILITY] := 8;			
2478	14	6:7	670	ATTRIB[LUCK] := 8;			
2479	14	6:7	681				
2480	14	6:7	681	LUCKSKIL[0] := 16;			
2481	14	6:7	692	LUCKSKIL[1] := 16;			
2482	14	6:7	703	LUCKSKIL[2] := 16;			
2483	14	6:7	714	LUCKSKIL[3] := 16;			
2484	14	6:7	725	LUCKSKIL[4] := 16;			
2485	14	6:7	736				
2486	14	6:7	736	FILLCHAR(GOLD, 6, 0); (* ^.1A *)			
2487	14	6:7	746	FILLCHAR(POSS, 66, 0); (* ^.1D *)			
2488	14	6:7	756	FILLCHAR(EXP, 6, 0); (* ^.3E *)			
2489	14	6:7	766				
2490	14	6:7	766	EXP.MID := 100;			
2491	14	6:7	773	MAXLEVAC := 0;			
2492	14	6:7	780	CHARLEV := 0;			
2493	14	6:7	787	HPLEFT := 1; (* ^.43 *)			
2494	14	6:7	794	HPMAX := 1; (* ^.44 *)			
2495	14	6:7	801				
2496	14	6:7	801	FOR SPELLI := 0 TO 50 DO (* 50 IS ONE TOO MANY ! *)			
2497	14	6:8	818	SPELLSKN[SPELLI] := (SPELLI > 0) AND (SPELLI < 22);			
2498	14	6:8	851		(* ^.45 *)		
2499	14	6:7	851	HPCALCMD := 1; (* ^.57 *)			
2500	14	6:7	858	ARMORCL := 10;			
2501	14	6:7	865	HEALPTS := 0;			
2502	14	6:7	872	CRITHITM := FALSE;			
2503	14	6:7	879	SWINGCNT := 1; (* ^.5B *)			
2504	14	6:7	886				

2505	14	6:7	886	HPDAMRC.LEVEL := 1;			
2506	14	6:7	893	HPDAMRC.HPFAC := 4;			
2507	14	6:7	900	HPDAMRC.HPMINAD := 0;			
2508	14	6:7	907				
2509	14	6:7	907	FILLCHAR(MAGESP, SIZEOF(TSPELL7G), 0); (* ^.49 *)			
2510	14	6:7	917	FILLCHAR(PRIESTSP, SIZEOF(TSPELL7G), 0); (* ^.49 *)			
2511	14	6:7	927				
2512	14	6:7	927	FILLCHAR(WEPVSTY2, 2 * 2, 0);			
2513	14	6:7	939	FILLCHAR(WEPVSTY3, 2 * 2, 0);			
2514	14	6:7	951	FILLCHAR(WEPVSTYP, 2 * 2, 0);			
2515	14	6:7	963	(* I HAVE WEPVSTYP AS 0..13 OF BOOLEAN *)			
2516	14	6:7	963				
2517	14	6:7	963	LOSTXYL.LOCATION[1] := 0; (* ^.64 *)			
2518	14	6:7	975	LOSTXYL.LOCATION[2] := 10 * 100 + 9;			
2519	14	6:7	991	LOSTXYL.LOCATION[3] := 11;			
2520	14	6:7	1003	LOSTXYL.LOCATION[4] := 0;			
2521	14	6:7	1015				
2522	14	6:7	1015	TREBORX := -32767;			
2523	14	6:7	1022				
2524	14	6:7	1022	WERDNA00(520, 530) (* AT LAST YOU AWAKEN FROM ENDLESS...*)			
2525	14	6:7	1028	(* ... *)			
2526	14	6:7	1028	(* BUT FIRST YOU HAVE TO REGAIN... *)			
2527	14	6:6	1028	END;			
2528	14	6:4	1030	END;			
2529	14	6:2	1030	END;			
2530	14	6:2	1030				
2531	14	6:0	1030	END; (* SAVRESTR *)			
2532	14	6:0	1060				
2533	14	6:0	1060				
2534	14	10:D	3	FUNCTION SOLGAM18(MSGNUM : INTEGER) : INTEGER; (* P01080A *)			
2535	14	10:D	4				
2536	14	10:D	4				
2537	14	10:D	4	(* RETURNS: -1 <ESC> PRESSED.			
2538	14	10:D	4	0 <ENTER> PRESSED FOR NEW GAME.			
2539	14	10:D	4	1..8 GAME NUMBER. *)			
2540	14	10:D	4				
2541	14	10:0	0	BEGIN (* SOLGAM18 *)			
2542	14	10:1	0	BASE10 := GETWIN(0, 2, 40, 4, 6, TRUE);			
2543	14	10:1	13	DISP1LIN(BASE10, MSGNUM);			
2544	14	10:1	18	DISP1LIN(BASE10, MSGNUM + 1);			
2545	14	10:1	25	DELWIN(BASE10, FALSE);			
2546	14	10:1	31				
2547	14	10:1	31	REPEAT			
2548	14	10:2	31	GETKEY;			
2549	14	10:2	34	IF INCHAR = CHR(13) THEN			
2550	14	10:3	39	INCHAR := '0';			
2551	14	10:2	42	IF INCHAR = CHR(27) THEN			
2552	14	10:3	47	INCHAR := CHR(ORD('0') - 1); (* '/' !? *)			
2553	14	10:1	52	UNTIL (ORD(INCHAR) >= (ORD('0') - 1) AND			
2554	14	10:1	57	(INCHAR <= '8');			
2555	14	10:1	63				
2556	14	10:1	63	SOLGAM18 := ORD(INCHAR) - ORD('0')			
2557	14	10:1	65				
2558	14	10:0	65	END; (* SOLGAM18 *)			
2559	14	10:0	82				
2560	14	10:0	82				
2561	14	11:D	1	PROCEDURE PLAYLVMV; (* P01080B *)			

2562	14	11:D	1						
2563	14	11:D	1						
2564	14	12:D	1	PROCEDURE	PLAYGAME;	(* P01080C *)			
2565	14	12:D	1						
2566	14	12:D	1	VAR					
2567	14	12:D	1	UNUSED	:	ARRAY[0..106] OF INTEGER;			
2568	14	12:D	108						
2569	14	12:D	108						
2570	14	12:0	0	BEGIN	(* PLAYGAME *)				
2571	14	12:1	0	BASE38[6]	:= SOLGAM18(503);	(* PLAY WHICH SAVE GAME (1-8)? *)			
2572	14	12:1	13			(* ~ FOR A NEW GAME, (ESC) EXITS *)			
2573	14	12:1	13	IF	BASE38[6] < 0 THEN	(* <ESC> *)			
2574	14	12:2	23	BEGIN					
2575	14	12:3	23	BASE09	:= -1;				
2576	14	12:3	27	EXIT	(PLAYGAME)				
2577	14	12:2	31	END;					
2578	14	12:1	31	SAVRESTR	(FALSE);	(* NEW / RESTORE *)			
2579	14	12:1	34			(* BASE38[6] = 0 FOR NEW GAME,			
2580	14	12:1	34			= 1..8 TO PLAY A SAVED GAME *)			
2581	14	12:1	34						
2582	14	12:1	34	MOVELEFT	(BASE55B[GETREC(1, MAZELEV - 1, 1024)],				
2583	14	12:1	49		BASE09, 2);				
2584	14	12:1	55						
2585	14	12:1	55	UNITREAD	(DRIVE1, BASE55B, 512, CACHEBL);				
2586	14	12:1	68	CLEARWIN	(MAINWIN, FALSE);				
2587	14	12:1	74	BASE10	:= GETWIN(0, 10, 40, 4, 6, TRUE);				
2588	14	12:1	87	DISPILIN	(BASE10, 500);	(* "ENTERING" *)			
2589	14	12:1	94	DISPILIN	(BASE10, 501);	(* "THE RETURN OF WERDNA" *)			
2590	14	12:1	101	DELWIN	(BASE10, FALSE);				
2591	14	12:1	107	BASE13	:= 7;				
2592	14	12:1	110	EXIT	(SHOPS)				
2593	14	12:1	114						
2594	14	12:0	114	END;	(* PLAYGAME *)				
2595	14	12:0	126						
2596	14	12:0	126						
2597	14	13:D	1	PROCEDURE	MOVESAVE;	(* P01080D *)			
2598	14	13:D	1						
2599	14	13:D	1	VAR					
2600	14	13:D	1	UNUSED	:	INTEGER;			
2601	14	13:D	2	MP02	:	INTEGER;			
2602	14	13:D	3	UNUSED2	:	INTEGER;			
2603	14	13:D	4	NUM07	:	INTEGER;			
2604	14	13:D	5	MP05	:	PACKED ARRAY[0..511] OF CHAR;			
2605	14	13:D	261						
2606	14	13:D	261	MP105	:	PACKED ARRAY[0..1023] OF CHAR;			
2607	14	13:D	773						
2608	14	13:D	773	UWINOUT	:	INTEGER;			
2609	14	13:D	774						
2610	14	13:D	774						
2611	14	14:D	1	PROCEDURE	MSG123(MSG1 : INTEGER;	(* P01080E *)			
2612	14	14:D	2		MSG2 : INTEGER;				
2613	14	14:D	3		MSG3 : INTEGER);				
2614	14	14:D	4						
2615	14	14:D	4	VAR					
2616	14	14:D	4	UNUSED	:	INTEGER;			
2617	14	14:D	5	VSIZE	:	INTEGER;			
2618	14	14:D	6						

2619	14	14:D	6				
2620	14	14:0	0	BEGIN (* MSG123 *)			
2621	14	14:1	0	VSIZE := 3;			
2622	14	14:1	3	IF MSG2 > 0 THEN			
2623	14	14:2	8	VSIZE := 4;			
2624	14	14:1	11	IF MSG3 > 0 THEN			
2625	14	14:2	16	VSIZE := 5;			
2626	14	14:1	19	BASE10 := GETWIN(0, 10, 40, VSIZE, 30, TRUE);			
2627	14	14:1	32	DISP1LIN(BASE10, MSG1);			
2628	14	14:1	37	IF MSG2 > 0 THEN			
2629	14	14:2	42	DISP1LIN(BASE10, MSG2);			
2630	14	14:1	47	IF MSG3 > 0 THEN			
2631	14	14:2	52	DISP1LIN(BASE10, MSG3);			
2632	14	14:1	57	DELWIN(BASE10, FALSE)			
2633	14	14:0	60	END; (* MSG123 *)			
2634	14	14:0	76				
2635	14	14:0	76				
2636	14	15:D	1	PROCEDURE INSERTA; (* P01080F *)			
2637	14	15:D	1				
2638	14	15:0	0	BEGIN (* INSERTA *)			
2639	14	15:1	0	MSG123(9, 6, 0);			
2640	14	15:1	5	(*			
2641	14	15:1	5	INSERT YOUR ORIGINAL DISKETTE "A" INTO			
2642	14	15:1	5	DISK DRIVE 1, THEN PRESS ~			
2643	14	15:1	5	*)			
2644	14	15:1	5				
2645	14	15:1	5	GETCR;			
2646	14	15:1	8	IF BRELOC THEN			
2647	14	15:2	13	BEGIN			
2648	14	15:3	13	UWINOUT := 1; (* RESET THE \$F2 FLAG TO "VIRTUAL DISK" *)			
2649	14	15:3	18	UNITWRITE(BASE12, UWINOUT, 31, 0)			
2650	14	15:2	30	END;			
2651	14	15:1	30	EXIT(MOVESAVE)			
2652	14	15:0	34	END; (* INSERTA *)			
2653	14	15:0	46				
2654	14	15:0	46				
2655	14	16:D	1	PROCEDURE GETKEY18; (* P010810 *)			
2656	14	16:D	1				
2657	14	16:0	0	BEGIN (* GETKEY18 *)			
2658	14	16:0	0				
2659	14	16:1	0	REPEAT			
2660	14	16:2	0	GETKEY;			
2661	14	16:2	3	IF (INCHAR = CHR(13)) OR (INCHAR = CHR(27)) THEN			
2662	14	16:3	12	INSERTA			
2663	14	16:1	12	UNTIL (INCHAR >= '1') AND (INCHAR <= '8')			
2664	14	16:1	20				
2665	14	16:0	20	END; (* GETKEY18 *)			
2666	14	16:0	38				
2667	14	16:0	38				
2668	14	17:D	1	PROCEDURE CHKDSKA; (* P010811 *)			
2669	14	17:D	1				
2670	14	17:0	0	BEGIN (* CHKDSKA *)			
2671	14	17:1	0	MP02 := FINDFILE(DRIVE1, 'WERDNA.DATA');			
2672	14	17:1	23	IF MP02 < 0 THEN			
2673	14	17:2	30	BEGIN			
2674	14	17:3	30	MSG123(10, 0, 0);			
2675	14	17:3	35	(*			

2676	14	17:3	35	THAT IS NOT A DISKETTE "A" - PRESS ~			
2677	14	17:3	35	*)			
2678	14	17:3	35				
2679	14	17:3	35	INSERTA			
2680	14	17:2	35	END			
2681	14	17:0	37	END; (* CHKDSKA *)			
2682	14	17:0	50				
2683	14	17:0	50				
2684	14	13:0	0	BEGIN (* MOVESAVE *)			
2685	14	13:1	0	CLEARWIN(MAINWIN, TRUE);			
2686	14	13:1	6	UWINOUT := -1;			
2687	14	13:1	11	MSG123(2, 3, 6);			
2688	14	13:1	16	(*			
2689	14	13:1	16	INSERT DISKETTE "A" CONTAINING THE			
2690	14	13:1	16	SAVE GAME YOU WISH TO MOVE INTO			
2691	14	13:1	16	DISK DRIVE 1, THEN PRESS ~			
2692	14	13:1	16	*)			
2693	14	13:1	16				
2694	14	13:1	16	IF BRELOC THEN			
2695	14	13:2	21	BEGIN			
2696	14	13:3	21	UWINOUT := 2; (* RESET \$F2 TO NO "VIRTUAL DISK" *)			
2697	14	13:3	25	UNITWRITE(BASE12, UWINOUT, 31, 0)			
2698	14	13:2	36	END;			
2699	14	13:1	36	GETCR;			
2700	14	13:1	39	CHKDSKA;			
2701	14	13:1	41	MSG123(7, 0, 0);			
2702	14	13:1	46	(*			
2703	14	13:1	46	MOVE WHICH SAVE GAME (1-8, ~ EXITS)			
2704	14	13:1	46	*)			
2705	14	13:1	46				
2706	14	13:1	46	GETKEY18;			
2707	14	13:1	48	NUM07 := ORD(INCHAR) - ORD('1');			
2708	14	13:1	53	UNITREAD(DRIVE1, MP05, 512, MP02 + NUM07);			
2709	14	13:1	66	UNITREAD(DRIVE1, MP105, 1024, MP02 + 8 + NUM07 + NUM07);			
2710	14	13:1	84	MSG123(4, 5, 6);			
2711	14	13:1	89	(*			
2712	14	13:1	89	INSERT DISKETTE "A" ONTO WHICH			
2713	14	13:1	89	THE SAVE GAME IS TO BE MOVED INTO			
2714	14	13:1	89	DISK DRIVE 1, THEN PRESS ~			
2715	14	13:1	89	*)			
2716	14	13:1	89				
2717	14	13:1	89	GETCR;			
2718	14	13:1	92	CHKDSKA;			
2719	14	13:1	94	MSG123(8, 0, 0);			
2720	14	13:1	99	(*			
2721	14	13:1	99	MOVE TO WHAT SAVE GAME (1-8, ~ EXITS)			
2722	14	13:1	99	*)			
2723	14	13:1	99				
2724	14	13:1	99	GETKEY18;			
2725	14	13:1	101	NUM07 := ORD(INCHAR) - ORD('1');			
2726	14	13:1	106	UNITWRITE(DRIVE1, MP05, 512, MP02 + NUM07);			
2727	14	13:1	119	UNITWRITE(DRIVE1, MP105, 1024, MP02 + 8 + NUM07 + NUM07);			
2728	14	13:1	137	INSERTA			
2729	14	13:1	137				
2730	14	13:0	137	END; (* MOVESAVE *)			
2731	14	13:0	152				
2732	14	13:0	152				

2733	14	11:0	0	BEGIN (* PLAYLVMV *)			
2734	14	11:0	0				
2735	14	11:0	0	(*			
2736	14	11:0	0	WELCOME TO:			
2737	14	11:0	0	THE RETURN OF WERDNA!			
2738	14	11:0	0				
2739	14	11:0	0	YOU ARE WERDNA, THE EVIL WIZARD.			
2740	14	11:0	0	YEARS AGO...			
2741	14	11:0	0	*)			
2742	14	11:0	0				
2743	14	11:1	0	CLEARWIN(MAINWIN, TRUE);			
2744	14	11:1	6	FOR BASE09 := 3 TO 19 DO			
2745	14	11:2	17	BEGIN			
2746	14	11:3	17	MVCURSOR(MAINWIN, 0, BASE09);			
2747	14	11:3	24	DISP1LIN(MAINWIN, 220 + BASE09);			
2748	14	11:2	34	END;			
2749	14	11:2	41				
2750	14	11:1	41	REPEAT			
2751	14	11:1	41				
2752	14	11:2	41	GETMSGTX(BASE47, 502); (* P)LAY GAME/L)EAVE GAME/M)OVE SAVE GAMES *)			
2753	14	11:2	49	BASE10 := GETWIN2(GTLNGSUB(BASE47), 0, 5, 4, TRUE);			
2754	14	11:2	67	BASE09 := MENU(BASE10, BASE47);			
2755	14	11:2	77	DELWIN(BASE10, TRUE);			
2756	14	11:2	83				
2757	14	11:2	83	CASE BASE09 OF			
2758	14	11:2	86	0: PLAYGAME;			
2759	14	11:2	90	1: BASE13 := 0; (* LEAVE GAME *)			
2760	14	11:2	95	2: MOVESAVE;			
2761	14	11:2	99	END;			
2762	14	11:2	112				
2763	14	11:1	112	UNTIL BASE09 >= 0;			
2764	14	11:1	117				
2765	14	11:1	117	EXIT(SHOPS)			
2766	14	11:1	121				
2767	14	11:0	121	END; (* PLAYLVMV *)			
2768	14	11:0	138				
2769	14	11:0	138				
2770	14	18:D	1	PROCEDURE SAVEGAME; (* P010812 *)			
2771	14	18:D	1				
2772	14	18:0	0	BEGIN (* SAVEGAME *)			
2773	14	18:1	0	PROTWIN(CHARSWIN, TRUE);			
2774	14	18:1	5	BASE38[6] := SOLGAM18(505); (* "SAVE TO WHICH SAVE GAME (1-8) ?" *)			
2775	14	18:1	18	IF BASE38[6] = -1 THEN			
2776	14	18:2	29	BEGIN			
2777	14	18:3	29	BASE13 := 5;			
2778	14	18:3	32	EXIT(SHOPS)			
2779	14	18:2	36	END;			
2780	14	18:2	36				
2781	14	18:1	36	WITH CHARACTER[6] DO			
2782	14	18:2	44	BEGIN			
2783	14	18:3	44	LOSTXYL.LOCATION[2] := (100 * MAZEX) + MAZEY;			
2784	14	18:3	58	LOSTXYL.LOCATION[3] := MAZELEV;			
2785	14	18:3	68	SAVRESTR(TRUE);			
2786	14	18:3	71	BASE13 := 23;			
2787	14	18:3	74	EXIT(SHOPS)			
2788	14	18:2	78	END;			
2789	14	18:2	78				

2790	14	18:0	78	END; (* SAVEGAME *)			
2791	14	18:0	90				
2792	14	18:0	90				
2793	14	19:D	1	PROCEDURE SHOPINIT; (* P010813 *)			
2794	14	19:D	1				
2795	14	19:0	0	BEGIN (* SHOPINIT *)			
2796	14	19:1	0	ACMOD2 := 0;			
2797	14	19:1	3	LIGHT := 0;			
2798	14	19:1	6	IDMONSTR := 0;			
2799	14	19:1	9	CHSTALRM := 0;			
2800	14	19:1	12	ATTK012 := 0;			
2801	14	19:1	15	FIZZLES := 0;			
2802	14	19:1	18	BASE37 := FALSE;			
2803	14	19:1	21	BASE38[6] := -1;			
2804	14	19:1	29	BASE13 := 23;			
2805	14	19:0	32	END; (* SHOPINIT *)			
2806	14	19:0	44				
2807	14	19:0	44				
2808	14	1:0	0	BEGIN (* SHOPS *)			
2809	14	1:0	0				
2810	14	1:1	0	CASE BASE13 OF			
2811	14	1:1	4				
2812	14	1:1	4	1: SHOPINIT;			
2813	14	1:1	8	14: OHNO; (* OH NO!!! *)			
2814	14	1:1	12	8: SAVEGAME;			
2815	14	1:1	16	23: PLAYLVMV;			
2816	14	1:1	20				
2817	14	1:1	20	END;			
2818	14	1:1	74				
2819	14	1:0	74	END; (* SHOPS *)			
2820	14	1:0	86				
2821	14	1:0	86	(* \$I WIZ4B:SHOPS *)			
2822	14	1:0	86				
2823	15	1:D	1	SEGMENT PROCEDURE P010901;			
2824	15	1:0	0	BEGIN			
2825	15	1:0	0	END;			
2826	15	1:0	12				
2826	15	1:0	12	(* \$I WIZ4C:CAMP *)			
2827	15	1:0	12				
2828	16	1:D	1	SEGMENT PROCEDURE CAMP; (* P010A01 *)			
2829	16	1:D	1				
2830	16	2:D	1	PROCEDURE P010A02;			
2831	16	2:D	1				
2832	16	2:D	1	VAR			
2833	16	2:D	1	MP01 : INTEGER;			
2834	16	2:D	2	MP02 : INTEGER;			
2835	16	2:D	3	MP03 : INTEGER;			
2836	16	2:D	4	MP04 : INTEGER;			
2837	16	2:D	5	MP05 : INTEGER;			
2838	16	2:D	6	MP06 : INTEGER;			
2839	16	2:D	7	MP07 : INTEGER;			
2840	16	2:D	8				
2841	16	2:D	8				
2842	16	3:D	1	PROCEDURE P010A03;			
2843	16	3:D	1				
2844	16	3:D	1	VAR			
2845	16	3:D	1	DEADOBJS : INTEGER;			

2846	16	3:D	2	OBJCOUNT : INTEGER;			
2847	16	3:D	3	P03MP03 : PACKED ARRAY[0..2] OF INTEGER; (* GUESS *)			
2848	16	3:D	6				
2849	16	3:D	6	FOUND OBJ : PACKED ARRAY[1..8] OF INTEGER;			
2850	16	3:D	14				
2851	16	3:D	14	DEAD OBJL : PACKED ARRAY[1..100] OF INTEGER; (* GUESS *)			
2852	16	3:D	114				
2853	16	3:D	114	LOOTLIST : PACKED ARRAY[0..250] OF BOOLEAN; (* GUESS *)			
2854	16	3:D	130	UNIDENT : PACKED ARRAY[0..250] OF BOOLEAN; (* MP82 *)			
2855	16	3:D	146				
2856	16	3:D	146				
2857	16	4:D	3	FUNCTION RAND1TOX(MP03 : INTEGER) : INTEGER; (* P010A04 *)			
2858	16	4:D	4				
2859	16	4:0	0	BEGIN (* RAND1TOX *)			
2860	16	4:1	0	RAND1TOX := 1 + (RAND MOD MP03)			
2861	16	4:0	8	END; (* RAND1TOX *)			
2862	16	4:0	24				
2863	16	4:0	24				
2864	16	5:D	1	PROCEDURE P010A05;			
2865	16	5:D	1				
2866	16	5:D	1	(* CREATE FOUND OBJ[] LIST TO DISPLAY AS "RUMMAGING AROUND...YOU FIND *)			
2867	16	5:D	1				
2868	16	5:D	1	VAR			
2869	16	5:D	1	LVL CALC : INTEGER;			
2870	16	5:D	2	TEMPX : INTEGER; (* MULTIPLE USES *)			
2871	16	5:D	3	COUNT : INTEGER;			
2872	16	5:D	4				
2873	16	5:D	4				
2874	16	6:D	1	PROCEDURE SHUFFLE; (* P010A06 *)			
2875	16	6:D	1				
2876	16	6:D	1	(* SHUFFLE OBJECTS IN FOUND OBJ[] FROM 1 TO OBJCOUNT *)			
2877	16	6:D	1				
2878	16	6:D	1	VAR			
2879	16	6:D	1	SAVE1 : INTEGER;			
2880	16	6:D	2	OBJ2 : INTEGER;			
2881	16	6:D	3	OBJ1 : INTEGER;			
2882	16	6:D	4	DO100 : INTEGER;			
2883	16	6:D	5				
2884	16	6:0	0	BEGIN (* SHUFFLE *)			
2885	16	6:1	0	IF OBJCOUNT > 1 THEN			
2886	16	6:2	7	FOR DO100 := 1 TO 100 DO			
2887	16	6:3	18	BEGIN			
2888	16	6:4	18	OBJ1 := RAND1TOX(OBJCOUNT);			
2889	16	6:4	27	OBJ2 := RAND1TOX(OBJCOUNT);			
2890	16	6:4	36	SAVE1 := FOUND OBJ[OBJ1];			
2891	16	6:4	47	FOUND OBJ[OBJ1] := FOUND OBJ[OBJ2];			
2892	16	6:4	65	FOUND OBJ[OBJ2] := SAVE1			
2893	16	6:3	73	END;			
2894	16	6:3	82				
2895	16	6:1	82	EXIT(P010A05);			
2896	16	6:1	86				
2897	16	6:0	86	END; (* SHUFFLE *)			
2898	16	6:0	100				
2899	16	6:0	100				
2900	16	7:D	3	FUNCTION P010A07(MP03 : INTEGER) : BOOLEAN;			
2901	16	7:D	4				
2902	16	7:0	0	BEGIN (* P010A07 *)			

2903	16	7:1	0	IF UNIDENT[MP03] THEN			
2904	16	7:2	11	BEGIN			
2905	16	7:3	11	P010A07 := NOT LOOTLIST[MP03];			
2906	16	7:3	22	LOOTLIST[MP03] := TRUE			
2907	16	7:2	29	END			
2908	16	7:1	31	ELSE			
2909	16	7:2	33	P010A07 := TRUE			
2910	16	7:0	33	END; (* P010A07 *)			
2911	16	7:0	48				
2912	16	7:0	48				
2913	16	5:0	0	BEGIN (* P010A05 *)			
2914	16	5:1	0	FILLCHAR(LOOTLIST, 32, 0);			
2915	16	5:1	8	WITH CHARACTER[6].POSS DO (* MP04 *)			
2916	16	5:2	18	BEGIN			
2917	16	5:3	18	FOR COUNT := 1 TO POSSCNT DO			
2918	16	5:4	30	BEGIN			
2919	16	5:5	30	WITH POSSESS[COUNT] DO (* MP06 *)			
2920	16	5:6	40	BEGIN			
2921	16	5:7	40	IF UNIDENT[EQINDEX] THEN			
2922	16	5:8	52	LOOTLIST[EQINDEX] := TRUE;			
2923	16	5:6	62	END; (* WITH POSSESS *)			
2924	16	5:4	62	END;			
2925	16	5:4	69				
2926	16	5:2	69	END; (* WITH *)			
2927	16	5:2	69				
2928	16	5:1	69	FOR COUNT := 1 TO 19 DO (* 19 ITEMS IN BLACK BOX *)			
2929	16	5:2	80	BEGIN			
2930	16	5:3	80	IF UNIDENT[BLACKBOX[COUNT - 1]] THEN			
2931	16	5:4	99	IF BLACKBOX[COUNT - 1] <> 104 THEN (* 104 = BLACK BOX(?) *)			
2932	16	5:5	112	LOOTLIST[BLACKBOX[COUNT - 1]] := TRUE;			
2933	16	5:2	129	END;			
2934	16	5:1	136	DEADOBJS := 0;			
2935	16	5:1	140	LVLCALC := 12 - MAZELEV;			
2936	16	5:1	145	IF LVLCALC < 1 THEN			
2937	16	5:2	150	LVLCALC := 11 + LVLCALC;			
2938	16	5:2	155				
2939	16	5:1	155	FOR COUNT := 0 TO 5 DO			
2940	16	5:2	166	BEGIN			
2941	16	5:3	166	IF BASE7DB[COUNT] THEN			
2942	16	5:4	176	BEGIN			
2943	16	5:5	176	WITH CHARACTER[COUNT] DO (* MP05 *)			
2944	16	5:6	184	BEGIN			
2945	16	5:7	184	WITH GOLD DO (* MP06 *)			
2946	16	5:8	189	BEGIN			
2947	16	5:9	189	IF LOW > 0 THEN			
2948	16	5:0	195	BEGIN			
2949	16	5:1	195	LOW := RAND1TOX(LOW);			
2950	16	5:1	203	MID := 0;			
2951	16	5:1	208	HIGH := 0;			
2952	16	5:1	213				
2953	16	5:1	213	FOR TEMPX := 1 TO LVLCALC DO			
2954	16	5:2	224	ADDLONGS(CHARACTER[6].GOLD,			
2955	16	5:2	232	GOLD);			
2956	16	5:0	245	END;			
2957	16	5:8	245	END;			
2958	16	5:8	245				
2959	16	5:7	245	WITH POSS DO (* MP06 *)			

2960	16	5:8	250	BEGIN			
2961	16	5:9	250	FOR TEMPX := 1 TO POSSCNT DO			
2962	16	5:0	262	BEGIN			
2963	16	5:1	262	WITH POSSESS[TEMPX] DO (* MP08 *)			
2964	16	5:2	272	BEGIN			
2965	16	5:3	272	IF P010A07(EQINDEX) THEN			
2966	16	5:4	280	BEGIN			
2967	16	5:5	280	DEADOBJS := DEADOBJS + 1;			
2968	16	5:5	288	DEADOBJL[DEADOBJS] := EQINDEX			
2969	16	5:4	298	END			
2970	16	5:2	301	END;			
2971	16	5:2	301				
2972	16	5:0	301	END;			
2973	16	5:8	308	END; (* WITH POSS *)			
2974	16	5:8	308				
2975	16	5:6	308	END; (* WITH CHARACTER *)			
2976	16	5:6	308				
2977	16	5:4	308	END;			
2978	16	5:2	308	END;			
2979	16	5:2	315				
2980	16	5:2	315	(* 51E7 *)			
2981	16	5:2	315				
2982	16	5:1	315	FOR COUNT := 1 TO 8 DO			
2983	16	5:2	326	FOUNDOBJ[COUNT] := -1;			
2984	16	5:2	344				
2985	16	5:1	344	OBJCOUNT := 0;			
2986	16	5:1	348	IF DEADOBJS = 0 THEN			
2987	16	5:2	355	SHUFFLE; (* AND EXIT P010A05 *)			
2988	16	5:1	357	FOR COUNT := 1 TO DEADOBJS DO			
2989	16	5:2	370	BEGIN			
2990	16	5:3	370	IF UNIDENT[DEADOBJL[COUNT]] THEN			
2991	16	5:4	389	IF DEADOBJL[COUNT] <> -1 THEN			
2992	16	5:5	403	BEGIN			
2993	16	5:6	403	OBJCOUNT := OBJCOUNT + 1;			
2994	16	5:6	411	FOUNDOBJ[OBJCOUNT] := DEADOBJL[COUNT];			
2995	16	5:6	431	DEADOBJL[COUNT] := -1			
2996	16	5:5	439	END			
2997	16	5:2	442	END;			
2998	16	5:2	449				
2999	16	5:1	449	WHILE OBJCOUNT < 8 DO			
3000	16	5:2	456	BEGIN			
3001	16	5:3	456	COUNT := RAND1TOX(DEADOBJS);			
3002	16	5:3	465	TEMPX := COUNT;			
3003	16	5:3	468	WHILE DEADOBJL[COUNT] = -1 DO			
3004	16	5:4	482	BEGIN			
3005	16	5:5	482	COUNT := COUNT + 1;			
3006	16	5:5	487	IF COUNT > DEADOBJS THEN			
3007	16	5:6	494	COUNT := 1;			
3008	16	5:5	497	IF COUNT = TEMPX THEN			
3009	16	5:6	502	SHUFFLE			
3010	16	5:4	502	END;			
3011	16	5:4	506				
3012	16	5:3	506	OBJCOUNT := OBJCOUNT + 1;			
3013	16	5:3	514	FOUNDOBJ[OBJCOUNT] := DEADOBJL[COUNT];			
3014	16	5:3	534	DEADOBJL[COUNT] := -1			
3015	16	5:2	542	END;			
3016	16	5:2	547				

3017	16	5:1	547	SHUFFLE				
3018	16	5:1	547					
3019	16	5:0	547	END; (* P010A05 *)				
3020	16	5:0	584					
3021	16	5:0	584					
3022	16	8:D	1	PROCEDURE GETLOOT; (* P010A08 *)				
3023	16	8:D	1					
3024	16	8:D	1	VAR				
3025	16	8:D	1	UNUSED : INTEGER;				
3026	16	8:D	2	OBJNAMI : INTEGER;				
3027	16	8:D	3	OBJX : INTEGER;				
3028	16	8:D	4					
3029	16	8:D	4					
3030	16	8:0	0	BEGIN (* GETLOOT *)				
3031	16	8:1	0	PROTWIN(CHARSWIN, FALSE);				
3032	16	8:1	5	BASE10 := GETWIN(0, 0, 40, 18, 25, TRUE);				
3033	16	8:1	18	DISP1LIN(BASE10, 800); (* RUMMAGING AROUND IN THE PILE *)				
3034	16	8:1	25	DISP1LIN(BASE10, 801); (* OF DEAD, YOU FIND... *)				
3035	16	8:1	32	FOR OBJX := 1 TO OBJCOUNT DO				
3036	16	8:2	45	BEGIN				
3037	16	8:3	45	MVCURSOR(BASE10, 10, 2 + OBJX);				
3038	16	8:3	53	PRINTNUM(BASE10, OBJX, 1);				
3039	16	8:3	59	PRPICMB(BASE10, ' ');				
3040	16	8:3	68	OBJNAMI := 14001 + (FOUNDOBJ[OBJX] * 2); (* A STONE, ... *)				
3041	16	8:3	85	IF UNIDENT[OBJX] THEN				
3042	16	8:4	96	OBJNAMI := OBJNAMI - 1;				
3043	16	8:3	101	GETMSGTX(BASE47, OBJNAMI); (* OBJECT NAME *)				
3044	16	8:3	107	PRPICMB(BASE10, BASE47)				
3045	16	8:2	110	END;				
3046	16	8:2	120					
3047	16	8:1	120	MVCURSOR(BASE10, 0, 12);				
3048	16	8:1	126	DISP1LIN(BASE10, 802); (* PRESS 1-8 TO TAKE AN ITEM *)				
3049	16	8:1	133	DISP1LIN(BASE10, 803); (* ~ WHEN FINISHED STRIPPING BODIES *)				
3050	16	8:1	140					
3051	16	8:1	140	WITH CHARACTER[6].POSS DO (* MP04 *)				
3052	16	8:2	150	BEGIN				
3053	16	8:2	150					
3054	16	8:3	150	REPEAT				
3055	16	8:3	150					
3056	16	8:4	150	CLRRECT(BASE10, 0, 15, 38, 1);				
3057	16	8:4	158	MVCURSOR(BASE10, 0, 15);				
3058	16	8:4	164	IF POSSCNT > 6 THEN				
3059	16	8:5	170	DISP1LIN(BASE10, 813 - POSSCNT)				
3060	16	8:5	177	(* YOU CAN'T CARRY ANY MORE ITEMS *)				
3061	16	8:5	177	(* YOU CAN CARRY ONLY 1 MORE ITEM *)				
3062	16	8:4	177	ELSE				
3063	16	8:5	182	BEGIN				
3064	16	8:6	182	GETMSGTX(BASE47, 804); (* (YOU CAN CARRY ^ MORE ITEMS) *)				
3065	16	8:6	190	INT2STR(8 - POSSCNT, BASEC7);				
3066	16	8:6	200	INSERTST(BASEC7, BASE47);				
3067	16	8:6	208	CENTSTR(BASE10, BASE47);				
3068	16	8:5	214	END;				
3069	16	8:5	214					
3070	16	8:4	214	GETKEY;				
3071	16	8:4	217	IF INCHAR = CHR(CRETURN) THEN				
3072	16	8:5	222	BEGIN				
3073	16	8:6	222	DELWIN(BASE10, FALSE);				

3074	16	8:6	228	UNPROWIN(CHARSWIN, FALSE);			
3075	16	8:6	233	EXIT(P010A03)			
3076	16	8:5	237	END			
3077	16	8:4	237	ELSE			
3078	16	8:5	239	BEGIN			
3079	16	8:6	239	IF (INCHAR >= '1') AND (INCHAR <= '8') AND (POSSCNT < 8) THEN			
3080	16	8:7	253	BEGIN			
3081	16	8:8	253	OBJX := ORD(INCHAR) - ORD('0');			
3082	16	8:8	258	IF FOUNDOBJ[OBJX] <> -1 THEN			
3083	16	8:9	272	BEGIN			
3084	16	8:0	272	POSSCNT := POSSCNT + 1;			
3085	16	8:0	278	WITH POSSESS[POSSCNT] DO (* MP05 *)			
3086	16	8:1	289	BEGIN			
3087	16	8:2	289	EQUIPED := FALSE;			
3088	16	8:2	292	IDENTIF := FALSE;			
3089	16	8:2	297	CURSED := FALSE;			
3090	16	8:2	302	EQINDEX := FOUNDOBJ[OBJX];			
3091	16	8:2	315	FOUNDOBJ[OBJX] := -1;			
3092	16	8:2	326	CLRRECT(BASE10, 0, OBJX + 2, 38, 1)			
3093	16	8:1	333	END;			
3094	16	8:9	336	END;			
3095	16	8:7	336	END;			
3096	16	8:5	336	END;			
3097	16	8:5	336				
3098	16	8:3	336	UNTIL FALSE			
3099	16	8:3	336				
3100	16	8:2	336	END; (* WITH CHARACTER[6] *)			
3101	16	8:2	339				
3102	16	8:0	339	END; (* GETLOOT *)			
3103	16	8:0	356				
3104	16	8:0	356				
3105	16	9:D	1	PROCEDURE P010A09(CHARXX : INTEGER);			
3106	16	9:D	2				
3107	16	9:D	2	VAR			
3108	16	9:D	2	EQPCNT : INTEGER;			
3109	16	9:D	3	POSSX : INTEGER;			
3110	16	9:D	4				
3111	16	9:0	0	BEGIN (* P010A09 *)			
3112	16	9:1	0	FOR POSSX := 1 TO 5 DO			
3113	16	9:2	11	BASE7DC[POSSX - 1] := -BASE7DC[POSSX - 1];			
3114	16	9:1	37	EQPCNT := 1;			
3115	16	9:1	40	WITH CHARACTER[CHARXX].POSS DO (* MP04 *)			
3116	16	9:2	50	BEGIN			
3117	16	9:3	50	FOR POSSX := 1 TO POSSCNT DO			
3118	16	9:4	62	BEGIN			
3119	16	9:5	62	POSSESS[EQPCNT] := POSSESS[POSSX];			
3120	16	9:5	80	WITH POSSESS[EQPCNT] DO (* MP06 *)			
3121	16	9:6	90	BEGIN			
3122	16	9:7	90	IF EQINDEX <> 0 + 0 THEN			
3123	16	9:8	98	BEGIN			
3124	16	9:9	98	IF EQINDEX <= 5 THEN			
3125	16	9:0	104	BEGIN			
3126	16	9:1	104	IF BASE7DC[EQINDEX - 1] = 0 THEN			
3127	16	9:2	118	BASE7DC[EQINDEX - 1] := 1			
3128	16	9:1	127	ELSE			
3129	16	9:2	131	BASE7DC[EQINDEX - 1] :=			
3130	16	9:2	140	ABS(BASE7DC[EQINDEX - 1])			

3131	16	9:0	151	END;			
3132	16	9:9	152	EQPCNT := EQPCNT + 1			
3133	16	9:8	153	END;			
3134	16	9:6	157	END; (* WITH POSSESS[] *)			
3135	16	9:6	157				
3136	16	9:4	157	END;			
3137	16	9:4	164				
3138	16	9:4	164	(* 54FC *)			
3139	16	9:3	164	EQPCNT := EQPCNT - 1;			
3140	16	9:3	169	IF EQPCNT < POSSCNT THEN			
3141	16	9:4	175	POSSCNT := EQPCNT;			
3142	16	9:4	178				
3143	16	9:2	178	END; (* WITH *)			
3144	16	9:2	178				
3145	16	9:1	178	FOR POSSX := 1 TO 5 DO			
3146	16	9:2	189	IF BASE7DC[POSSX - 1] = -1 THEN			
3147	16	9:3	203	BASE7DC[POSSX - 1] := 0			
3148	16	9:2	211	ELSE			
3149	16	9:3	215	BASE7DC[POSSX - 1] := ABS(BASE7DC[POSSX - 1])			
3150	16	9:3	233				
3151	16	9:0	233	END; (* P010A09 *)			
3152	16	9:0	260				
3153	16	9:0	260				
3154	16	10:D	1	PROCEDURE SETUNID(OBJX : INTEGER); (* P010A0A *)			
3155	16	10:D	2				
3156	16	10:0	0	BEGIN (* SETUNID *)			
3157	16	10:1	0	UNIDENT[OBJX] := TRUE			
3158	16	10:0	8	END; (* SETUNID *)			
3159	16	10:0	22				
3160	16	10:0	22				
3161	16	11:D	1	PROCEDURE SETUNID2(OBJX : INTEGER; (* P010A0B *)			
3162	16	11:D	2	OBJY : INTEGER);			
3163	16	11:D	3				
3164	16	11:0	0	BEGIN (* SETUNID2 *)			
3165	16	11:1	0	WHILE OBJX <= OBJY DO			
3166	16	11:2	5	BEGIN			
3167	16	11:3	5	UNIDENT[OBJX] := TRUE;			
3168	16	11:3	15	OBJX := OBJX + 1			
3169	16	11:2	16	END			
3170	16	11:0	20	END; (* SETUNID2 *)			
3171	16	11:0	36				
3172	16	11:0	36				
3173	16	3:0	0	BEGIN (* P010A03 *)			
3174	16	3:1	0	FILLCHAR(UNIDENT, 32, 0); (* UNIDENT[] SET TO FALSE *)			
3175	16	3:1	8	(* OBJECTS IDENTIFIED BY DEFAULT *)			
3176	16	3:1	8	SETUNID2(1, 20);			
3177	16	3:1	12	SETUNID(46);			
3178	16	3:1	15	SETUNID2(56, 58);			
3179	16	3:1	19	SETUNID2(61, 62);			
3180	16	3:1	23	SETUNID(65);			
3181	16	3:1	26	SETUNID2(75, 77);			
3182	16	3:1	30	SETUNID2(87, 90);			
3183	16	3:1	34	SETUNID2(95, 96);			
3184	16	3:1	38	SETUNID2(100, 119);			
3185	16	3:1	42				
3186	16	3:1	42	P010A09(6);			
3187	16	3:1	45	P010A05;			

3188	16	3:1	47	IF OBJCOUNT = 0 THEN			
3189	16	3:2	52	EXIT(P010A03);			
3190	16	3:1	56	GETLOOT			
3191	16	3:1	56				
3192	16	3:0	56	END; (* P010A03 *)			
3193	16	3:0	70				
3194	16	3:0	70				
3195	16	12:D	1	PROCEDURE RDSPELLS; (* P010A0C *)			
3196	16	12:D	1				
3197	16	12:D	1	VAR			
3198	16	12:D	1	SPELLWIN : TWINDOWP;			
3199	16	12:D	2	SPELLGRP : INTEGER;			
3200	16	12:D	3	CHARX : INTEGER;			
3201	16	12:D	4				
3202	16	12:D	4				
3203	16	13:D	1	PROCEDURE PRSPELL(MAGPRST : INTEGER; (* P010A0D *)			
3204	16	13:D	2	SPELFRST : INTEGER;			
3205	16	13:D	3	SPELLLAST : INTEGER);			
3206	16	13:D	4				
3207	16	13:D	4	VAR			
3208	16	13:D	4	POSITION : INTEGER;			
3209	16	13:D	5	SPELVERT : INTEGER;			
3210	16	13:D	6	SPELHORZ : INTEGER;			
3211	16	13:D	7	SPELLI : INTEGER;			
3212	16	13:D	8				
3213	16	13:D	8				
3214	16	13:0	0	BEGIN (* PRSPELL *)			
3215	16	13:1	0	CLEARWIN(SPELLWIN, TRUE);			
3216	16	13:1	7	POSITION := 0;			
3217	16	13:1	10	FOR SPELLI := SPELFRST TO SPELLLAST DO			
3218	16	13:2	21	BEGIN			
3219	16	13:3	21	GETMSGTX(BASE47, 5000 + SPELLI); (* *HALITO, MOGREF, KATINO...*)			
3220	16	13:3	31	IF BASE47[1] = '*' THEN			
3221	16	13:4	39	BEGIN			
3222	16	13:5	39	SPELHORZ := 9 * (POSITION MOD 4);			
3223	16	13:5	46	SPELVERT := 7 * (POSITION DIV 4);			
3224	16	13:5	53	POSITION := POSITION + 1;			
3225	16	13:5	58	IF POSITION = 4 THEN (* IS THIS A BUG!? *)			
3226	16	13:6	63	SPELHORZ := SPELHORZ + 1;			
3227	16	13:5	68	COPYSTR(BASE47, BASE47, 2, LENGTH(BASE47) - 1);			
3228	16	13:4	82	END;			
3229	16	13:4	82				
3230	16	13:3	82	IF CHARACTER[CHARX].SPELLSKN[SPELLI] THEN			
3231	16	13:4	99	BEGIN			
3232	16	13:5	99	MVCURSOR(SPELLWIN, SPELHORZ, SPELVERT);			
3233	16	13:5	107	PRPICMB(SPELLWIN, BASE47);			
3234	16	13:5	115	SPELVERT := SPELVERT + 1			
3235	16	13:4	116	END;			
3236	16	13:4	120				
3237	16	13:2	120	END;			
3238	16	13:2	127				
3239	16	13:1	127	SPELVERT := SPELLWIN^.HEAD.VSIZE - 2;			
3240	16	13:1	139	SPELHORZ := SPELLWIN^.HEAD.HSIZE - 2;			
3241	16	13:1	151	GETMSGTX(BASE47, MAGPRST);			
3242	16	13:1	157	MVCURSOR(SPELLWIN, SPELHORZ - MBSTRLEN(BASE47), SPELVERT - 2);			
3243	16	13:1	175	PRPICMB(SPELLWIN, BASE47);			
3244	16	13:1	183	GETMSGTX(BASE47, 900); (* PRESS ~ *)			

3245	16	13:1	191	MVCURSOR(SPELLWIN, SPELHORZ - MBSTRLEN(BASE47), SPELVERT - 1);
3246	16	13:1	209	PRPICMB(SPELLWIN, BASE47);
3247	16	13:1	217	GETCR;
3248	16	13:1	220	INCHAR := CHR(0)
3249	16	13:0	221	END; (* PRSPEL *)
3250	16	13:0	238	
3251	16	13:0	238	
3252	16	14:D	1	PROCEDURE PR7GSPEL(MP02 : INTEGER; (* P010A0E *)
3253	16	14:D	2	MP01 : TSPELL7G);
3254	16	14:D	10	
3255	16	14:0	0	BEGIN (* PR7GSPEL *)
3256	16	14:1	0	DISP1MSG(SPELLWIN, MP02);
3257	16	14:1	12	DISP1MSG(SPELLWIN, 901); (* SPELLS = *)
3258	16	14:1	21	PRINTNUM(SPELLWIN, MP01[1], 1);
3259	16	14:1	36	SPELLGRP := 1 + 1;
3260	16	14:1	42	WHILE SPELLGRP <= 7 DO
3261	16	14:2	49	BEGIN
3262	16	14:3	49	PRPICCH(SPELLWIN, '/');
3263	16	14:3	56	PRINTNUM(SPELLWIN, MP01[SPELLGRP], 1);
3264	16	14:3	73	SPELLGRP := SPELLGRP + 1
3265	16	14:2	76	END;
3266	16	14:1	83	PRINTCR(SPELLWIN)
3267	16	14:0	86	END; (* PR7GSPEL *)
3268	16	14:0	104	
3269	16	14:0	104	
3270	16	12:0	0	BEGIN (* RDSPELLS *)
3271	16	12:1	0	SPELLWIN := GETWIN(0, 7, 40, 17, 15, FALSE);
3272	16	12:1	13	CHARX := BASE09;
3273	16	12:1	16	WITH CHARACTER[CHARX] DO (* MP04 *)
3274	16	12:2	24	BEGIN
3275	16	12:2	24	
3276	16	12:3	24	REPEAT
3277	16	12:4	24	CLEARWIN(SPELLWIN, TRUE);
3278	16	12:4	29	PR7GSPEL(902, MAGESP); (* MAGE *)
3279	16	12:4	37	PR7GSPEL(903, PRIESTSP); (* PRIEST *)
3280	16	12:4	45	MVCURSOR(SPELLWIN, 8, 4);
3281	16	12:4	51	SPELLGRP := MENUINDX(SPELLWIN, 904);
3282	16	12:4	62	(* M)AGE SPELL BOOKS/(P)RIEST SPELL BOOKS/(L)EAVE *)
3283	16	12:4	62	CASE SPELLGRP OF
3284	16	12:4	65	0 : PRSPEL(905, 1, 21); (* MAGE SPELLS *)
3285	16	12:4	74	1 : PRSPEL(906, 22, 50); (* PRIEST SPELLS *)
3286	16	12:4	83	END;
3287	16	12:4	94	
3288	16	12:3	94	UNTIL SPELLGRP = 2; (* "L" *)
3289	16	12:3	99	
3290	16	12:3	99	INCHAR := CHR(0);
3291	16	12:3	102	DELWIN(SPELLWIN, FALSE);
3292	16	12:3	108	BASE13 := 25;
3293	16	12:3	111	BASE09 := CHARX;
3294	16	12:3	114	EXIT(P010A02)
3295	16	12:3	118	
3296	16	12:2	118	END;
3297	16	12:2	118	
3298	16	12:0	118	END; (* RDSPELLS *)
3299	16	12:0	132	
3300	16	12:0	132	
3301	16	15:D	1	PROCEDURE KANDIFND; (* P010A0F *)

3302	16	15:D	1				
3303	16	15:D	1	VAR			
3304	16	15:D	1	MP01 : INTEGER;			
3305	16	15:D	2	MP02 : INTEGER;			
3306	16	15:D	3	MP03 : INTEGER;			
3307	16	15:D	4	MP04 : INTEGER;			
3308	16	15:D	5	MP05 : INTEGER;			
3309	16	15:D	6	SVBASE09 : INTEGER;			
3310	16	15:D	7	MP07 : ARRAY[1..100] OF INTEGER;			
3311	16	15:D	107	MP6B : ARRAY[1..4] OF INTEGER;			
3312	16	15:D	111				
3313	16	16:D	1	PROCEDURE EXITCAMP; (* P010A10 *)			
3314	16	16:D	1				
3315	16	16:0	0	BEGIN (* EXITCAMP *)			
3316	16	16:1	0	DELWIN(BASE10, FALSE);			
3317	16	16:1	6	INCHAR := 'A';			
3318	16	16:1	9	BASE09 := SVBASE09;			
3319	16	16:1	14	BASE13 := 25;			
3320	16	16:1	17	EXIT(P010A02)			
3321	16	16:0	21	END; (* EXITCAMP *)			
3322	16	16:0	34				
3323	16	16:0	34				
3324	16	17:D	1	PROCEDURE EXTCMPCR; (* P010A11 *)			
3325	16	17:D	1				
3326	16	17:0	0	BEGIN (* EXTCMPCR *)			
3327	16	17:1	0	MVCURSOR(BASE10, 0, BASE10^.HEAD.VSIZE - 3);			
3328	16	17:1	13	DISP1LIN(BASE10, 907); (* PRESS ~ TO LEAVE *)			
3329	16	17:1	20	GETCR;			
3330	16	17:1	23	EXITCAMP			
3331	16	17:0	23	END; (* EXTCMPCR *)			
3332	16	17:0	38				
3333	16	17:0	38				
3334	16	18:D	1	PROCEDURE FNDTREBR; (* P010A12 *)			
3335	16	18:D	1				
3336	16	18:0	0	BEGIN (* FNDTREBR *)			
3337	16	18:1	0	GETMSGTX(BASE47, 910); (* IN THE *)			
3338	16	18:1	8	MP02 := TREBORX;			
3339	16	18:1	14	MP01 := TREBORY;			
3340	16	18:1	20	IF MP01 > 9 THEN			
3341	16	18:2	27	GETMSGTX(BASEC7, 911) (* NORTH- *)			
3342	16	18:1	33	ELSE			
3343	16	18:2	38	GETMSGTX(BASEC7, 912); (* SOUTH- *)			
3344	16	18:2	47				
3345	16	18:1	47	PCONCAT(BASE47, BASEC7);			
3346	16	18:1	55				
3347	16	18:1	55	IF MP02 > 9 THEN			
3348	16	18:2	62	GETMSGTX(BASEC7, 913) (* EAST *)			
3349	16	18:1	68	ELSE			
3350	16	18:2	73	GETMSGTX(BASEC7, 914); (* WEST *)			
3351	16	18:2	82				
3352	16	18:1	82	PCONCAT(BASE47, BASEC7);			
3353	16	18:1	90				
3354	16	18:1	90	GETMSGTX(BASEC7, 915); (* OF THIS LEVEL. *)			
3355	16	18:1	99	PCONCAT(BASE47, BASEC7);			
3356	16	18:1	107				
3357	16	18:1	107	INT2STR(MP6B[3], BASEC7);			
3358	16	18:1	122	INSERTST(BASEC7, BASE47);			

3359	16	18:1	130	CENTSTR(BASE10, BASE47);			
3360	16	18:1	136	EXTCMPCR			
3361	16	18:0	136	END; (* FNDTREBR *)			
3362	16	18:0	150				
3363	16	18:0	150				
3364	16	15:0	0	BEGIN (* KANDIFND *)			
3365	16	15:1	0	SVBASE09 := BASE09;			
3366	16	15:1	3	BASE10 := GETWIN(1, 7, 38, 6, 17, TRUE);			
3367	16	15:1	16	DISPILIN(BASE10, 916); (* LOCATE SOMEONE *)			
3368	16	15:1	23	PRINTCR(BASE10);			
3369	16	15:1	27	DISPMSG(BASE10, 917); (* FIND WHOM ? > *)			
3370	16	15:1	34	SOLICIT(BASE10, BASE47, 15);			
3371	16	15:1	41	IF BASE47 = '' THEN			
3372	16	15:2	50	EXITCAMP;			
3373	16	15:1	52	CLEARWIN(BASE10, TRUE);			
3374	16	15:1	57	GETMSGTX(BASEC7, 918); (* ^ IS ... *)			
3375	16	15:1	66	INSERTST(BASE47, BASEC7);			
3376	16	15:1	74	CENTSTR(BASE10, BASEC7);			
3377	16	15:1	81	IF BASE47 = 'TREBOR' THEN			
3378	16	15:2	96	FNDTREBR			
3379	16	15:1	96	ELSE			
3380	16	15:2	100	BEGIN			
3381	16	15:3	100	MP04 := 29000; (* WERDNA, KADORTO, ADAMS, WOODHEAD, GREENBERG, *)			
3382	16	15:3	105	(* KILROY, WARTOW *)			
3383	16	15:3	105	GETMSGTX(BASEC7, MP04);			
3384	16	15:3	112	WHILE BASEC7 <> '**ERR**' DO			
3385	16	15:4	129	BEGIN			
3386	16	15:5	129	IF BASEC7 = BASE47 THEN			
3387	16	15:6	138	BEGIN			
3388	16	15:7	138	DISPILIN(BASE10, MP04 + 1);			
3389	16	15:7	145	EXTCMPCR			
3390	16	15:6	145	END;			
3391	16	15:5	147	MP04 := MP04 + 2;			
3392	16	15:5	152	GETMSGTX(BASEC7, MP04)			
3393	16	15:4	156	END;			
3394	16	15:2	161	END;			
3395	16	15:1	161	DISPILIN(BASE10, 908); (* HUNTING YOU DOWN! *)			
3396	16	15:1	168	EXTCMPCR			
3397	16	15:0	168	END; (* KANDIFND *)			
3398	16	15:0	184				
3399	16	15:0	184				
3400	16	15:0	184				
3401	16	19:D	1	PROCEDURE MALOR; (* P010A13 *)			
3402	16	19:D	1				
3403	16	19:D	1	VAR			
3404	16	19:D	1	DELTAUD : INTEGER;			
3405	16	19:D	2	DELTANS : INTEGER;			
3406	16	19:D	3	DELTAEW : INTEGER;			
3407	16	19:D	4	MP04 : INTEGER;			
3408	16	19:D	5	NSEWUD : INTEGER;			
3409	16	19:D	6	SAVECAST : INTEGER;			
3410	16	19:D	7	MALORWIN : TWINDOWP;			
3411	16	19:D	8				
3412	16	19:D	8				
3413	16	20:D	1	PROCEDURE TELEPORT; (* P010A14 *)			
3414	16	20:D	1				
3415	16	21:D	1	PROCEDURE ROCK; (* P010A15 *)			

3416	16	21:D	1					
3417	16	21:D	1	VAR				
3418	16	21:D	1		UNUSED : INTEGER;			
3419	16	21:D	2					
3420	16	21:0	0		BEGIN (* ROCK *)			
3421	16	21:1	0		DISP1LIN(BASE10, 200); (* YOU TELEPORTED INTO ROCK! *)			
3422	16	21:1	7		PAUSE2;			
3423	16	21:1	10		DELWIN(BASE10, FALSE);			
3424	16	21:1	16		BASE13 := 14;			
3425	16	21:1	19		EXIT(P010A02)			
3426	16	21:0	23		END; (* ROCK *)			
3427	16	21:0	36					
3428	16	21:0	36					
3429	16	22:D	1		PROCEDURE BOUNCE; (* P010A16 *)			
3430	16	22:D	1					
3431	16	22:0	0		BEGIN (* BOUNCE *)			
3432	16	22:1	0		DISP1LIN(BASE10, 206); (* YOU BOUNCED BACK TO WHERE YOU WERE! *)			
3433	16	22:1	7		PAUSE2;			
3434	16	22:1	10		DELWIN(BASE10, FALSE);			
3435	16	22:1	16		EXIT(P010A02)			
3436	16	22:0	20		END; (* BOUNCE *)			
3437	16	22:0	32					
3438	16	22:0	32					
3439	16	23:D	1		PROCEDURE P010A17(MP05 : INTEGER;			
3440	16	23:D	2		MP04 : INTEGER;			
3441	16	23:D	3		MP03 : INTEGER;			
3442	16	23:D	4		MP02 : INTEGER;			
3443	16	23:D	5		MP01 : INTEGER);			
3444	16	23:D	6					
3445	16	23:0	0		BEGIN (* P010A17 *)			
3446	16	23:1	0		IF (MP05 = MP04) OR (MP05 = MP03) OR			
3447	16	23:1	7		(MP05 = MP02) OR (MP05 = MP01) THEN			
3448	16	23:2	17		EXIT(P010A17);			
3449	16	23:1	21		BOUNCE			
3450	16	23:0	21		END; (* P010A17 *)			
3451	16	23:0	36					
3452	16	23:0	36					
3453	16	24:D	1		PROCEDURE OBLIVION; (* P010A18 *)			
3454	16	24:D	1					
3455	16	24:D	1	VAR				
3456	16	24:D	1		WERDNABL : INTEGER;			
3457	16	24:D	2		DISKBLK : INTEGER;			
3458	16	24:D	3		BUFFER : PACKED ARRAY[0..511] OF CHAR;			
3459	16	24:D	259					
3460	16	24:D	259					
3461	16	25:D	1		PROCEDURE DISPMMSGX(MSGX : INTEGER); (* P010A19 *)			
3462	16	25:D	2					
3463	16	25:0	0		BEGIN (* DISPMMSGX *)			
3464	16	25:1	0		CLEARWIN(BASE10, TRUE);			
3465	16	25:1	5		REPEAT			
3466	16	25:2	5		GETMSGTX(BASE47, MSGX);			
3467	16	25:2	11		IF BASE47 = '**ERR**' THEN			
3468	16	25:3	27		EXIT(DISPMMSGX);			
3469	16	25:2	31		CENTSTR(BASE10, BASE47);			
3470	16	25:2	37		MSGX := MSGX + 1			
3471	16	25:1	38		UNTIL FALSE			
3472	16	25:0	42		END; (* DISPMMSGX *)			

3473	16	25:0	60					
3474	16	25:0	60					
3475	16	24:0	0	BEGIN (* OBLIVION *)				
3476	16	24:1	0	DELWIN(BASE10, FALSE);				
3477	16	24:1	6	BASE10 := GETWIN(0, 6, 40, 8, 17, TRUE);				
3478	16	24:1	19	DISPMSGX(2100); (* ARE YOU REALLY SEEKING WHAT IS BELOW *)				
3479	16	24:1	24	(* LIFE ITSELF? BEWARE, YOUR CHOICE IS *)				
3480	16	24:1	24	(* IRREVOCABLE. (A REAL SERIOUS HINT!) *)				
3481	16	24:1	24	(* ---MAKE A BACKUP SAVE GAME DISKETTE *)				
3482	16	24:1	24	(* ^BEFORE ATTEMPTING THIS!!! *)				
3483	16	24:1	24	GETMSGTX(BASE47, 2110); (* YN *)				
3484	16	24:1	32					
3485	16	24:1	32	REPEAT				
3486	16	24:2	32	GETKEY				
3487	16	24:1	32	UNTIL (INCHAR = BASE47[1]) OR (INCHAR = BASE47[2]);				
3488	16	24:1	50					
3489	16	24:1	50	IF INCHAR = BASE47[2] THEN				
3490	16	24:2	58	BEGIN				
3491	16	24:3	58	DELWIN(BASE10, TRUE);				
3492	16	24:3	64	EXIT(P010A02)				
3493	16	24:2	68	END;				
3494	16	24:2	68					
3495	16	24:1	68	FILLCHAR(BUFFER, 512, 0);				
3496	16	24:1	77	WERDNABL := FINDFILE(DRIVE1, 'WERDNA.DATA');				
3497	16	24:1	99	FOR DISKBLK := WERDNABL TO WERDNABL + 7 DO				
3498	16	24:2	115	UNITWRITE(DRIVE1, BUFFER, 512, DISKBLK);				
3499	16	24:1	133	DISPMSGX(2120); (* YOU HAVE FOUND THE TOTAL OBLIVION *)				
3500	16	24:1	138	(* YOU HAVE FOR SO LONG BEEN SEARCH-				
3501	16	24:1	138	(* ING. ALL TRACES OF YOUR EXISTENCE *)				
3502	16	24:1	138	(* HAVE BEEN OBLITERATED! *)				
3503	16	24:1	138	(* PRESS ~ TO REST FOREVER! *)				
3504	16	24:1	138	GETCR;				
3505	16	24:1	141	DELWIN(BASE10, TRUE);				
3506	16	24:1	147	BASE13 := 23;				
3507	16	24:1	150	EXIT(P010A02)				
3508	16	24:0	154	END; (* OBLIVION *)				
3509	16	24:0	170					
3510	16	24:0	170					
3511	16	20:0	0	BEGIN (* TELEPORT *)				
3512	16	20:1	0	DELWIN(MALORWIN, FALSE);				
3513	16	20:1	7	DELWIN(CAMPWIN, FALSE);				
3514	16	20:1	13	DELWIN(CAMPTIT, FALSE);				
3515	16	20:1	19	CLEARWIN(BASE10, TRUE);				
3516	16	20:1	24	BASE13 := 7;				
3517	16	20:1	27	BASE09 := MAZELEV;				
3518	16	20:1	30	IF BASE09 > 12 THEN				
3519	16	20:2	35	BASE09 := 13 - BASE09;				
3520	16	20:1	40	MP04 := BASE09 - DELTAUD;				
3521	16	20:1	48	IF MP04 < 1 THEN				
3522	16	20:2	55	MP04 := 13 - MP04;				
3523	16	20:1	63	IF BASE80B = 1 THEN				
3524	16	20:2	70	BEGIN				
3525	16	20:3	70	CASE MAZELEV OF				
3526	16	20:3	73					
3527	16	20:3	73	11 :				
3528	16	20:4	73	BEGIN				
3529	16	20:5	73	IF (MP04 < 1) OR (MP04 > 12) THEN				

3530	16	20:6	86		BOUNCE			
3531	16	20:5	86		ELSE			
3532	16	20:6	90		IF MP04 = 12 THEN			
3533	16	20:7	97		IF (MAZEX = 10) AND (MAZEY = 9) THEN			
3534	16	20:8	106		BEGIN			
3535	16	20:9	106		DELTAEW := 0;			
3536	16	20:9	110		DELTANS := -9			
3537	16	20:8	110		END			
3538	16	20:7	115		ELSE			
3539	16	20:8	117		BOUNCE			
3540	16	20:4	117		END;			
3541	16	20:4	121					
3542	16	20:3	121		2, 3, 4, 5, 6, 7, 8, 9, 10 :			
3543	16	20:4	121		BEGIN			
3544	16	20:5	121		IF (MP04 < 1) OR (MP04 > 11) THEN			
3545	16	20:6	134		BOUNCE			
3546	16	20:4	134		END;			
3547	16	20:4	138					
3548	16	20:3	138		1 :			
3549	16	20:4	138		BEGIN			
3550	16	20:5	138		IF (MP04 < 2) OR (MP04 > 11) THEN			
3551	16	20:6	151		BOUNCE			
3552	16	20:4	151		END;			
3553	16	20:4	155					
3554	16	20:3	155		12 :			
3555	16	20:4	155		BEGIN			
3556	16	20:5	155		IF MP04 > 12 THEN			
3557	16	20:6	162		OBLIVION			
3558	16	20:5	162		ELSE			
3559	16	20:6	166		IF MP04 = 11 THEN			
3560	16	20:7	173		BEGIN			
3561	16	20:8	173		DELTAEW := - MAZEX + 10;			
3562	16	20:8	180		DELTANS := - MAZEY + 9			
3563	16	20:7	182		END			
3564	16	20:6	187		ELSE			
3565	16	20:7	189		BOUNCE			
3566	16	20:4	189		END;			
3567	16	20:4	193					
3568	16	20:3	193		13, 14 :			
3569	16	20:4	193		BEGIN			
3570	16	20:5	193		BOUNCE			
3571	16	20:4	193		END;			
3572	16	20:4	197					
3573	16	20:3	197		END; (* CASE *)			
3574	16	20:3	232					
3575	16	20:2	232		END			
3576	16	20:1	232		ELSE			
3577	16	20:1	234		(* 5B84 *)			
3578	16	20:2	234		BEGIN			
3579	16	20:3	234		CASE MAZELEV OF			
3580	16	20:3	237					
3581	16	20:3	237		11 :			
3582	16	20:4	237		BEGIN			
3583	16	20:5	237		IF MP04 <> 12 THEN			
3584	16	20:6	244		BOUNCE			
3585	16	20:5	244		ELSE			
3586	16	20:6	248		IF (MAZEX = 10) AND (MAZEY = 9) THEN			

3587	16	20:7	257	BEGIN			
3588	16	20:8	257	DELTAEW := 0;			
3589	16	20:8	261	DELTANS := - 9			
3590	16	20:7	261	END			
3591	16	20:6	266	ELSE			
3592	16	20:7	268	BOUNCE			
3593	16	20:4	268	END;			
3594	16	20:4	272				
3595	16	20:3	272	10 :			
3596	16	20:4	272	BEGIN			
3597	16	20:5	272	IF MP04 <> 11 THEN			
3598	16	20:6	279	BOUNCE			
3599	16	20:4	279	END;			
3600	16	20:4	283				
3601	16	20:3	283	5, 6, 7, 8, 9 :			
3602	16	20:4	283	BEGIN			
3603	16	20:5	283	IF (MP04 <> 11) AND (MP04 <> 10) THEN			
3604	16	20:6	296	BOUNCE			
3605	16	20:4	296	END;			
3606	16	20:4	300				
3607	16	20:3	300	2, 3, 4, 13, 14 :			
3608	16	20:4	300	BEGIN			
3609	16	20:5	300	BOUNCE			
3610	16	20:4	300	END;			
3611	16	20:4	304				
3612	16	20:3	304	12 :			
3613	16	20:4	304	BEGIN			
3614	16	20:5	304	IF MP04 > 12 THEN			
3615	16	20:6	311	OBLIVION			
3616	16	20:5	311	ELSE			
3617	16	20:6	315	IF MP04 = 11 THEN			
3618	16	20:7	322	BEGIN			
3619	16	20:8	322	DELTAEW := - MAZEX + 10;			
3620	16	20:8	329	DELTANS := - MAZEY + 9			
3621	16	20:7	331	END			
3622	16	20:6	336	ELSE			
3623	16	20:7	338	BOUNCE			
3624	16	20:4	338	END;			
3625	16	20:4	342				
3626	16	20:3	342	END; (* CASE *)			
3627	16	20:3	376				
3628	16	20:2	376	END;			
3629	16	20:2	376				
3630	16	20:2	376	(* 5C12 *)			
3631	16	20:1	376	IF (MAZELEV - DELTAUD) = 12 THEN			
3632	16	20:2	385	BEGIN			
3633	16	20:3	385	SAVEX := MAZEX;			
3634	16	20:3	388	SAVEY := MAZEY;			
3635	16	20:3	391	SAVELEV := MAZELEV			
3636	16	20:2	391	END;			
3637	16	20:1	394	MAZEX := MAZEX + DELTAEW;			
3638	16	20:1	401	MAZEY := MAZEY + DELTANS;			
3639	16	20:1	408	MAZELEV := MP04;			
3640	16	20:1	413				
3641	16	20:1	413	IF MAZELEV <> 12 THEN			
3642	16	20:2	418	BEGIN			
3643	16	20:3	418	SAVEX := MAZEX;			

3644	16	20:3	421	SAVEY := MAZEY;			
3645	16	20:3	424	SAVELEV := MAZELEV			
3646	16	20:2	424	END;			
3647	16	20:2	427				
3648	16	20:1	427	IF MAZELEV = 1 THEN			
3649	16	20:2	432	BEGIN			
3650	16	20:3	432	MAZEX := 0;			
3651	16	20:3	435	MAZEY := 0			
3652	16	20:2	435	END;			
3653	16	20:2	438				
3654	16	20:1	438	IF ((MAZEX < 0) OR (MAZEX > 19) OR			
3655	16	20:1	445	(MAZEY < 0) OR (MAZEY > 19) OR			
3656	16	20:1	453	(MAZELEV > SCENARIO.RECPERDK[1] - 2))			
3657	16	20:1	465				
3658	16	20:1	465	AND			
3659	16	20:1	465				
3660	16	20:1	465	(MAZELEV > 0) THEN			
3661	16	20:1	471				
3662	16	20:2	471	ROCK			
3663	16	20:1	471	ELSE			
3664	16	20:2	475	IF MAZELEV < 1 THEN			
3665	16	20:3	480	ROCK;			
3666	16	20:3	482				
3667	16	20:1	482	DELWIN(BASE10, TRUE);			
3668	16	20:1	488	EXIT(P010A02)			
3669	16	20:1	492				
3670	16	20:0	492	END; (* TELEPORT *)			
3671	16	20:0	508				
3672	16	20:0	508				
3673	16	19:0	0	BEGIN (* MALOR *)			
3674	16	19:1	0	SAVECAST := BASE09;			
3675	16	19:1	3	BASE10 := GETWIN(0, 7, 40, 6, 16, TRUE);			
3676	16	19:1	16	DISP1LIN(BASE10, 207); (* TELEPORT *)			
3677	16	19:1	23	PRINTCR(BASE10);			
3678	16	19:1	27	DISP1MSG(BASE10, 208); (* EAST = 0 NORTH = 0 UP = 0 *)			
3679	16	19:1	34	MALORWIN := GETWIN(5, 12, 12, 10, 17, TRUE);			
3680	16	19:1	47	DELTAEW := 0;			
3681	16	19:1	50	DELTANS := 0;			
3682	16	19:1	53	DELTAUD := 0;			
3683	16	19:1	56				
3684	16	19:1	56	REPEAT			
3685	16	19:2	56	MVCURSOR(BASE10, 8, 2);			
3686	16	19:2	62	PRINTNUM(BASE10, DELTAEW, 4);			
3687	16	19:2	68	MVCURSOR(BASE10, 22, 2);			
3688	16	19:2	74	PRINTNUM(BASE10, DELTANS, 4);			
3689	16	19:2	80	MVCURSOR(BASE10, 33, 2);			
3690	16	19:2	86	PRINTNUM(BASE10, DELTAUD, 4);			
3691	16	19:2	92	MVCURSOR(MALORWIN, 0, 0);			
3692	16	19:2	98	NSEWUD := MENUINDX(MALORWIN, 209);			
3693	16	19:2	109	(* E)AST/W)EST/N)ORTH/S)OUTH/U)P/D)OWN/T)ELEPORT/Q)UIT *)			
3694	16	19:2	109				
3695	16	19:2	109	CASE NSEWUD OF			
3696	16	19:2	112	2 : DELTANS := DELTANS + 1;			
3697	16	19:2	119	3 : DELTANS := DELTANS - 1;			
3698	16	19:2	126	0 : DELTAEW := DELTAEW + 1;			
3699	16	19:2	133	1 : DELTAEW := DELTAEW - 1;			
3700	16	19:2	140	5 : DELTAUD := DELTAUD - 1;			

3701	16	19:2	147	4 : DELTAUD := DELTAUD + 1;			
3702	16	19:2	154	6 : TELEPORT;			
3703	16	19:2	158	END;			
3704	16	19:2	180				
3705	16	19:1	180	UNTIL NSEWUD > 5;			
3706	16	19:1	185				
3707	16	19:1	185	DELWIN(MALORWIN, FALSE);			
3708	16	19:1	191	DELWIN(BASE10, TRUE);			
3709	16	19:1	197	BASE13 := 25;			
3710	16	19:1	200	BASE09 := SAVECAST;			
3711	16	19:1	203	EXIT(P010A02)			
3712	16	19:1	207				
3713	16	19:0	207	END; (* MALOR *)			
3714	16	19:0	222				
3715	16	19:0	222				
3716	16	26:D	1	PROCEDURE DUMAPIC; (* P010A1A *)			
3717	16	26:D	1				
3718	16	26:D	1	VAR			
3719	16	26:D	1	LEVLALC : INTEGER;			
3720	16	26:D	2	SAVBASE9 : INTEGER;			
3721	16	26:D	3	UNUSED : ARRAY[1..41] OF INTEGER;			
3722	16	26:D	44				
3723	16	26:0	0	BEGIN (* DUMAPIC *)			
3724	16	26:1	0	BASE13 := 25;			
3725	16	26:1	3	SAVBASE9 := BASE09;			
3726	16	26:1	6	BASE10 := GETWIN(1, 7, 38, 9, 16, TRUE);			
3727	16	26:1	19	DISP1LIN(BASE10, 21); (* YOUR POSITION: *)			
3728	16	26:1	24	PRINTCR(BASE10);			
3729	16	26:1	28	GETMSGTX(BASE47, 22); (* FACING ^ *)			
3730	16	26:1	34	GETMSGTX(BASEC7, 23 + DIRECTIO);			
3731	16	26:1	43	INSERTST(BASEC7, BASE47);			
3732	16	26:1	51	CENTSTR(BASE10, BASE47);			
3733	16	26:1	57	PRINTCR(BASE10);			
3734	16	26:1	61	GETMSGTX(BASE47, 27); (* ! EAST " NORTH # DOWN. *)			
3735	16	26:1	67	INT2STR(MAZEX, BASEC7);			
3736	16	26:1	74	INSERT2(BASEC7, BASE47, '!');			
3737	16	26:1	83	INT2STR(MAZEY, BASEC7);			
3738	16	26:1	90	INSERT2(BASEC7, BASE47, '');			
3739	16	26:1	99				
3740	16	26:1	99	IF MAZELEV = 13 THEN			
3741	16	26:2	104	LEVLALC := -1			
3742	16	26:1	104	ELSE IF MAZELEV = 14 THEN			
3743	16	26:3	115	LEVLALC := -2			
3744	16	26:2	115	ELSE			
3745	16	26:3	121	LEVLALC := MAZELEV - 1;			
3746	16	26:3	126				
3747	16	26:1	126	INT2STR(LEVLALC, BASEC7);			
3748	16	26:1	133	INSERT2(BASEC7, BASE47, '#');			
3749	16	26:1	142	CENTSTR(BASE10, BASE47);			
3750	16	26:1	148	PRINTCR(BASE10);			
3751	16	26:1	152	DISP1LIN(BASE10, 250); (* PRESS ~ *)			
3752	16	26:1	159	DELWIN(BASE10, FALSE);			
3753	16	26:1	165	GETCR;			
3754	16	26:1	168	INCHAR := 'A';			
3755	16	26:1	171	BASE09 := SAVBASE9;			
3756	16	26:1	174	EXIT(P010A02)			
3757	16	26:0	178	END; (* DUMAPIC *)			

3758	16	26:0	190					
3759	16	26:0	190					
3760	16	2:0	0	BEGIN (* P010A02 *)				
3761	16	2:0	0					
3762	16	2:1	0	CASE BASE13 OF				
3763	16	2:1	4					
3764	16	2:1	4	22: CASE BASE26 OF				
3765	16	2:2	8	0: RDSPELLS;				
3766	16	2:2	12	2: KANDIFND;				
3767	16	2:2	16	3: DUMAPIC;				
3768	16	2:2	20	4: MALOR;				
3769	16	2:2	24	END;				
3770	16	2:2	44					
3771	16	2:1	44	9: WITH CHARACTER[6] DO				
3772	16	2:3	52	BEGIN				
3773	16	2:4	52	IF STATUS <= ASLEEP THEN				
3774	16	2:5	59	BEGIN				
3775	16	2:6	59	STATUS := OK;				
3776	16	2:6	64	BASE13 := 5;				
3777	16	2:6	67	P010A03				
3778	16	2:5	67	END				
3779	16	2:4	69	ELSE				
3780	16	2:5	71	BASE13 := 14				
3781	16	2:3	71	END;				
3782	16	2:1	76	20: BEGIN				
3783	16	2:3	76	BASE09 := 0;				
3784	16	2:3	79	BASE13 := 21				
3785	16	2:2	79	END;				
3786	16	2:2	84					
3787	16	2:1	84	END; (* CASE *)				
3788	16	2:1	120					
3789	16	2:0	120	END; (* P010A02 *)				
3790	16	2:0	132					
3791	16	2:0	132					
3792	16	2:0	132	(*I WIZ4C:CAMP *)				
3792	16	2:0	132	(*I WIZ4C:CAMP2 *)				
3793	16	2:0	132					
3794	16	2:0	132	(* CAMP2 *)				
3795	16	2:0	132					
3796	16	27:D	1	PROCEDURE P010A1B;				
3797	16	27:D	1					
3798	16	27:D	1	VAR				
3799	16	27:D	1	P1BMP01 : INTEGER;				
3800	16	27:D	2	OBJIDS : ARRAY[0..8] OF INTEGER;				
3801	16	27:D	11	CURSEDXX : ARRAY[0..8] OF BOOLEAN;				
3802	16	27:D	20	CANUSE : ARRAY[0..8] OF BOOLEAN;				
3803	16	27:D	29	OBJNAMES : ARRAY[0..8] OF ARRAY[FALSE..TRUE] OF STRING[15];				
3804	16	27:D	173					
3805	16	28:D	1	PROCEDURE P010A1C(MP03 : INTEGER;				
3806	16	28:D	2	MP02 : INTEGER;				
3807	16	28:D	3	MP01 : BOOLEAN);				
3808	16	28:D	4					
3809	16	28:0	0	BEGIN (* P010A1C *)				
3810	16	28:1	0	BASE09 := MP03;				
3811	16	28:1	3	BASE26 := MP02;				
3812	16	28:1	6	BASE13 := 22;				
3813	16	28:1	9	IF MP01 THEN				

3814	16	28:2	12	DELWIN(BASE10, FALSE);			
3815	16	28:1	18	EXIT(P010A1B)			
3816	16	28:0	22	END; (* P010A1C *)			
3817	16	28:0	34				
3818	16	28:0	34				
3819	16	29:D	1	PROCEDURE P010A1D(MP01 : TWINDOWP);			
3820	16	29:D	2				
3821	16	29:0	0	BEGIN (* P010A1D *)			
3822	16	29:1	0	DISP1LIN(MP01, 600) (* ~ TO LEAVE *)			
3823	16	29:0	4	END; (* P010A1D *)			
3824	16	29:0	20				
3825	16	29:0	20				
3826	16	30:D	1	PROCEDURE P010A1E(MP01 : STRING);			
3827	16	30:D	43				
3828	16	30:0	0	BEGIN (* P010A1E *)			
3829	16	30:1	0	IF (MP01 = ' ') OR (MP01 = '') THEN			
3830	16	30:2	20	EXIT(P010A1E);			
3831	16	30:1	24	CLEARWIN(BASE10, TRUE);			
3832	16	30:1	29	MVCURSOR(BASE10, 0, 1);			
3833	16	30:1	35	BASE47 := '* ';			
3834	16	30:1	44	PCONCAT2(BASE47, MP01, ' *');			
3835	16	30:1	56	CENTSTR(BASE10, BASE47);			
3836	16	30:1	62	PAUSE2			
3837	16	30:0	62	END; (* P010A1E *)			
3838	16	30:0	78				
3839	16	30:0	78				
3840	16	31:D	1	PROCEDURE INSPECT; (* P010A1F *)			
3841	16	31:D	1				
3842	16	31:D	1	VAR			
3843	16	31:D	1	UNUSED : INTEGER;			
3844	16	31:D	2	CAMPCHAR : INTEGER;			
3845	16	31:D	3	MP03 : INTEGER;			
3846	16	31:D	4				
3847	16	31:D	4				
3848	16	32:D	1	PROCEDURE DSPSPELS; (* P010A20 *)			
3849	16	32:D	1				
3850	16	32:D	1	VAR			
3851	16	32:D	1	INDX : INTEGER;			
3852	16	32:D	2				
3853	16	32:0	0	BEGIN (* DSPSPELS *)			
3854	16	32:1	0	WITH CHARACTER[CAMPCHAR] DO			
3855	16	32:2	10	BEGIN			
3856	16	32:3	10	MVCURSOR(CAMPWIN, 0, 9);			
3857	16	32:3	16	DISP1MSG(CAMPWIN, 603); (* MAGE *)			
3858	16	32:3	23	FOR INDX := 1 TO 7 DO			
3859	16	32:4	34	BEGIN			
3860	16	32:5	34	PRINTNUM(CAMPWIN, MAGESP[INDX], 1);			
3861	16	32:5	48	IF INDX < 7 THEN			
3862	16	32:6	53	PRPICCH(CAMPWIN, '/')			
3863	16	32:4	55	END;			
3864	16	32:4	65				
3865	16	32:3	65	DISP1MSG(CAMPWIN, 604); (* PRST *)			
3866	16	32:3	72	FOR INDX := 1 TO 7 DO			
3867	16	32:4	83	BEGIN			
3868	16	32:5	83	PRINTNUM(CAMPWIN, PRIESTSP[INDX], 1);			
3869	16	32:5	97	IF INDX < 7 THEN			
3870	16	32:6	102	PRPICCH(CAMPWIN, '/')			

3871	16	32:4	104	END			
3872	16	32:2	107	END;			
3873	16	32:0	114	END; (* DSPPELS *)			
3874	16	32:0	130				
3875	16	32:0	130				
3876	16	33:D	1	PROCEDURE DSPITEMS; (* P010A21 *)			
3877	16	33:D	1				
3878	16	33:D	1	VAR			
3879	16	33:D	1	ITEMX : INTEGER;			
3880	16	33:D	2	HPOSNUM : INTEGER;			
3881	16	33:D	3	OBJECT : TOBJREC;			
3882	16	33:D	26				
3883	16	33:D	26				
3884	16	34:D	1	PROCEDURE P010A22(MP01 : INTEGER);			
3885	16	34:D	2				
3886	16	34:D	2	VAR			
3887	16	34:D	2	MP02 : INTEGER;			
3888	16	34:D	3	MP03 : INTEGER;			
3889	16	34:D	4				
3890	16	34:0	0	BEGIN (* P010A22 *)			
3891	16	34:1	0	FOR MP03 := 1 TO 5 DO			
3892	16	34:2	11	BASE7DC[MP03 - 1] := - BASE7DC[MP03 - 1];			
3893	16	34:1	37	MP02 := 1;			
3894	16	34:1	40	WITH CHARACTER[MP01].POSS DO			
3895	16	34:2	50	BEGIN			
3896	16	34:3	50	FOR MP03 := 1 TO POSSCNT DO			
3897	16	34:4	62	BEGIN			
3898	16	34:5	62	POSSESS[MP02] := POSSESS[MP03];			
3899	16	34:5	80	WITH POSSESS[MP02] DO			
3900	16	34:6	90	BEGIN			
3901	16	34:7	90	IF EQINDEX <> (0 + 0) THEN			
3902	16	34:8	98	BEGIN			
3903	16	34:9	98	IF EQINDEX <= 5 THEN			
3904	16	34:0	104	IF BASE7DC[EQINDEX - 1] = 0 THEN			
3905	16	34:1	118	BASE7DC[EQINDEX - 1] := 1			
3906	16	34:0	127	ELSE			
3907	16	34:1	131	BASE7DC[EQINDEX - 1] :=			
3908	16	34:1	140	ABS(BASE7DC[EQINDEX - 1]);			
3909	16	34:9	152	MP02 := MP02 + 1			
3910	16	34:8	153	END;			
3911	16	34:6	157	END; (* WITH *)			
3912	16	34:4	157	END;			
3913	16	34:4	164				
3914	16	34:3	164	MP02 := MP02 - 1;			
3915	16	34:3	169	IF MP02 < POSSCNT THEN			
3916	16	34:4	175	BEGIN			
3917	16	34:5	175	FOR MP03 := 1 TO 8 DO			
3918	16	34:6	186	OBJIDS[MP03] := -1;			
3919	16	34:5	202	POSSCNT := MP02			
3920	16	34:4	203	END;			
3921	16	34:4	205				
3922	16	34:2	205	END; (* WITH *)			
3923	16	34:2	205				
3924	16	34:1	205	FOR MP03 := 1 TO 5 DO			
3925	16	34:2	216	IF BASE7DC[MP03 - 1] = -1 THEN			
3926	16	34:3	230	BASE7DC[MP03 - 1] := 0			
3927	16	34:2	238	ELSE			

3928	16	34:3	242	BASE7DC[MP03 - 1] := ABS(BASE7DC[MP03 - 1])
3929	16	34:3	260	
3930	16	34:0	260	END; (* P010A22 *)
3931	16	34:0	288	
3932	16	34:0	288	
3933	16	33:0	0	BEGIN (* DSPITEMS *)
3934	16	33:1	0	P010A22(CAMPCHAR);
3935	16	33:1	5	
3936	16	33:1	5	WITH CHARACTER[CAMPCHAR] DO
3937	16	33:2	15	BEGIN
3938	16	33:2	15	
3939	16	33:3	15	FOR ITEMX := 1 TO 8 DO
3940	16	33:4	27	BEGIN
3941	16	33:5	27	HPOSNUM := 19 + 19 * ((ITEMX - 1) MOD 2);
3942	16	33:5	38	MVCURSOR(CAMPWIN, HPOSNUM - 19, 11 + (ITEMX - 1) DIV 2);
3943	16	33:5	52	IF ITEMX <= POSS.POSSCNT THEN
3944	16	33:6	60	BEGIN
3945	16	33:6	60	
3946	16	33:7	60	WITH POSS.POSSESS[ITEMX] DO
3947	16	33:8	71	BEGIN
3948	16	33:8	71	
3949	16	33:9	71	IF EQINDEX >= 0 THEN
3950	16	33:0	78	BEGIN
3951	16	33:1	78	IF OBJIDS[ITEMX] <> EQINDEX THEN
3952	16	33:2	91	BEGIN
3953	16	33:2	91	
3954	16	33:3	91	MOVELEFT(BASE55B[
3955	16	33:3	94	GETREC(4,
3956	16	33:3	95	POSS.POSSESS[ITEMX].EQINDEX - 0,
3957	16	33:3	107	SIZEOF(TOBJREC))),
3958	16	33:3	113	OBJECT,
3959	16	33:3	116	SIZEOF(TOBJREC));
3960	16	33:3	119	
3961	16	33:3	119	IF BASCIHU THEN
3962	16	33:4	124	BEGIN
3963	16	33:5	124	UNITWRITE(BASE12, OBJECT, 33,
3964	16	33:5	130	GETADDR(BASE89B));
3965	16	33:5	141	MOVELEFT(BASE89B[1], OBJECT, SIZEOF(TOBJREC))
3966	16	33:4	151	END;
3967	16	33:4	151	
3968	16	33:3	151	BASE09 := EQINDEX;
3969	16	33:3	156	OBJIDS[ITEMX] := BASE09;
3970	16	33:3	164	
3971	16	33:3	164	BASE09 := 14000 + BASE09 + BASE09 - 0;
3972	16	33:3	175	(* "BLOODSTONE", "LANDER'S TURQ.", ETC.) *)
3973	16	33:3	175	
3974	16	33:3	175	(* KNOWN *)
3975	16	33:3	175	GETMSGTX(OBJNAMES[ITEMX][TRUE], BASE09 + 1);
3976	16	33:3	192	(* UNKNOWN *)
3977	16	33:3	192	GETMSGTX(OBJNAMES[ITEMX][FALSE], BASE09);
3978	16	33:3	207	
3979	16	33:3	207	CANUSE[ITEMX] := OBJECT.CLASSUSE[CLASS];
3980	16	33:3	224	CURSEDXX[ITEMX] := OBJECT.CURSED
3981	16	33:2	230	END;
3982	16	33:2	232	
3983	16	33:1	232	PRINTNUM(CAMPWIN, ITEMX, 1);
3984	16	33:1	238	PRPICCH(CAMPWIN, '');

3985	16	33:1	243	IF EQUIPED THEN			
3986	16	33:2	248	IF CURSEDXX[ITEMX] THEN			
3987	16	33:3	257	PRPICCH(CAMPWIN, '-')			
3988	16	33:2	259	ELSE			
3989	16	33:3	264	PRPICCH(CAMPWIN, '*')			
3990	16	33:1	266	ELSE			
3991	16	33:2	271	IF CANUSE[ITEMX] THEN			
3992	16	33:3	280	PRPICCH(CAMPWIN, ' ')			
3993	16	33:2	282	ELSE			
3994	16	33:3	287	PRPICCH(CAMPWIN, '#'); (* # \$23 *)			
3995	16	33:3	292				
3996	16	33:1	292	PRPICMB(CAMPWIN,			
3997	16	33:1	293	OBJNAMES[ITEMX][TRUE])			
3998	16	33:0	304	END;			
3999	16	33:0	307				
4000	16	33:8	307	END; (* WITH *)			
4001	16	33:6	307	END;			
4002	16	33:6	307				
4003	16	33:5	307	IF CAMPWIN^.HEAD.HCURSOR = 0 THEN			
4004	16	33:6	317	PRPICCH(CAMPWIN, ' ');			
4005	16	33:6	322				
4006	16	33:5	322	WHILE (CAMPWIN^.HEAD.HCURSOR <> 0) AND			
4007	16	33:5	330	(CAMPWIN^.HEAD.HCURSOR < HPOSNUM) DO			
4008	16	33:6	341	PRPICCH(CAMPWIN, ' ')			
4009	16	33:6	343				
4010	16	33:4	343	END; (* FOR *)			
4011	16	33:4	355				
4012	16	33:2	355	END; (* WITH *)			
4013	16	33:2	355				
4014	16	33:0	355	END; (* DSPITEMS *)			
4015	16	33:0	380				
4016	16	33:0	380				
4017	16	35:D	1	PROCEDURE DSPSTATS; (* P010A23 *)			
4018	16	35:D	1				
4019	16	35:0	0	BEGIN (* DSPSTATS *)			
4020	16	35:1	0	WITH CHARACTER[CAMPCHAR] DO			
4021	16	35:2	10	BEGIN			
4022	16	35:3	10	MVCURSOR(CAMPWIN, 0, 2);			
4023	16	35:3	16	DISP1MSG(CAMPWIN, 605); (* STRENGTH *)			
4024	16	35:3	23	PRINTNUM(CAMPWIN, ATTRIB[STRENGTH], 3);			
4025	16	35:3	36	DISP1MSG(CAMPWIN, 606); (* GOLD *)			
4026	16	35:3	43	PRNTLONG(CAMPWIN, GOLD);			
4027	16	35:3	50	DISP1MSG(CAMPWIN, 607); (* LEV *)			
4028	16	35:3	57	PRINTNUM(CAMPWIN, CHARLEV, 4);			
4029	16	35:3	65	DISP1MSG(CAMPWIN, 608); (* I.Q. *)			
4030	16	35:3	72	PRINTNUM(CAMPWIN, ATTRIB[IQ], 3);			
4031	16	35:3	85	DISP1MSG(CAMPWIN, 609); (* KEYS *)			
4032	16	35:3	92	PRNTLONG(CAMPWIN, EXP); (* ????) *)			
4033	16	35:3	99	DISP1MSG(CAMPWIN, 610); (* AGE *)			
4034	16	35:3	106	PRINTNUM(CAMPWIN, AGE DIV 52, 4);			
4035	16	35:3	116	DISP1MSG(CAMPWIN, 611); (* PIETY *)			
4036	16	35:3	123	PRINTNUM(CAMPWIN, ATTRIB[PIETY], 3);			
4037	16	35:3	136	PRINTCR(CAMPWIN);			
4038	16	35:3	140				
4039	16	35:3	140	DISP1MSG(CAMPWIN, 612); (* VITALITY *)			
4040	16	35:3	147	PRINTNUM(CAMPWIN, ATTRIB[VITALITY], 3);			
4041	16	35:3	160	DISP1MSG(CAMPWIN, 613); (* H.P. *)			

4042	16	35:3	167	PRINTNUM(CAMPWIN, HPLEFT, 5);		
4043	16	35:3	175	PRPICCH(CAMPWIN, '/');		
4044	16	35:3	180	PRINTNUM(CAMPWIN, HPMAX, 4);		
4045	16	35:3	188	DISP1MSG(CAMPWIN, 614); (* A.C. *);		
4046	16	35:3	195	PRINTNUM(CAMPWIN, ARMORCL - ACMOD2, 3);		
4047	16	35:3	206	DISP1MSG(CAMPWIN, 615); (* AGILITY *)		
4048	16	35:3	213	PRINTNUM(CAMPWIN, ATTRIB[AGILITY], 3);		
4049	16	35:3	226	PRINTCR (CAMPWIN);		
4050	16	35:3	230			
4051	16	35:3	230	DISP1MSG(CAMPWIN, 616); (* LUCK *)		
4052	16	35:3	237	PRINTNUM(CAMPWIN, ATTRIB[LUCK], 3);		
4053	16	35:3	250	DISP1MSG(CAMPWIN, 617); (* STATUS *)		
4054	16	35:3	257	DISP1MSG(CAMPWIN, 10040 + ORD(STATUS)); (* OK, ..., LOST *)		
4055	16	35:3	268	IF LOSTXYL.POISNAMT[1] > 0 THEN		
4056	16	35:4	281	DISP1MSG(CAMPWIN, 618); (* (POISON) *)		
4057	16	35:4	288			
4058	16	35:3	288	WHILE CAMPWIN^.HEAD.HCURSOR <> 0 DO		
4059	16	35:4	298	PRPICCH(CAMPWIN, ' ')		
4060	16	35:4	300			
4061	16	35:2	300	END;		
4062	16	35:2	305			
4063	16	35:0	305	END; (* DSPSTATS *)		
4064	16	35:0	320			
4065	16	35:0	320			
4066	16	35:0	320			
4067	16	35:0	320			
4068	16	35:0	320			
4069	16	36:D	1	PROCEDURE CASTWHAT(SPELHASH : INTEGER); (* P010A24 *)		
4070	16	36:D	2			
4071	16	36:D	2	{		
4072	16	36:D	2	CONST		
4073	16	36:D	2			
4074	16	36:D	2	HALITO = 4178;		
4075	16	36:D	2	MOGREF = 2409;		
4076	16	36:D	2	KATINO = 3983;		
4077	16	36:D	2	DUMAPIC = 3245;		
4078	16	36:D	2			
4079	16	36:D	2	DILTO = 3340;		
4080	16	36:D	2	SOPIC = 1953;		
4081	16	36:D	2			
4082	16	36:D	2	MAHALITO = 6181;		
4083	16	36:D	2	MOLITO = 4731;		
4084	16	36:D	2			
4085	16	36:D	2	MORLIS = 4744;		
4086	16	36:D	2	DALTO = 3180;		
4087	16	36:D	2	LAHALITO = 6156;		
4088	16	36:D	2			
4089	16	36:D	2	MAMORLIS = 7525;		
4090	16	36:D	2	MAKANITO = 6612;		
4091	16	36:D	2	MADALTO = 4925;		
4092	16	36:D	2			
4093	16	36:D	2	LAKANITO = 6587;		
4094	16	36:D	2	ZILWAN = 4573;		
4095	16	36:D	2	MASOPIC = 3990;		
4096	16	36:D	2	HAMAN = 1562;		
4097	16	36:D	2			
4098	16	36:D	2	MALOR = 3128;		

4099	16	36:D	2	MAHAMAN = 2597;			
4100	16	36:D	2	TILTOWAI = 11157;			
4101	16	36:D	2				
4102	16	36:D	2				
4103	16	36:D	2	KALKI = 1449;			
4104	16	36:D	2	DIOS = 2301;			
4105	16	36:D	2	BADIOS = 3675;			
4106	16	36:D	2	MILWA = 2889;			
4107	16	36:D	2	PORFIC = 2287;			
4108	16	36:D	2				
4109	16	36:D	2	MATU = 3139;			
4110	16	36:D	2	CALFO = 0; (* 1717 *)			
4111	16	36:D	2	MANIFO = 2619;			
4112	16	36:D	2	MONTINO = 5970;			
4113	16	36:D	2				
4114	16	36:D	2	LOMILWA = 5333;			
4115	16	36:D	2	DIALKO = 2718;			
4116	16	36:D	2	LATUMAPI = 6491;			
4117	16	36:D	2	BAMATU = 5169;			
4118	16	36:D	2				
4119	16	36:D	2	DIAL = 761;			
4120	16	36:D	2	BADIAL = 1253;			
4121	16	36:D	2	LATUMOFI = 9463;			
4122	16	36:D	2	MAPORFIC = 4322;			
4123	16	36:D	2				
4124	16	36:D	2	DIALMA = 1614;			
4125	16	36:D	2	BADIALMA = 2446;			
4126	16	36:D	2	LITOKAN = 4396;			
4127	16	36:D	2	KANDI = 1185; (* 1885 *)			
4128	16	36:D	2	DI = 180;			
4129	16	36:D	2	BADI = 382;			
4130	16	36:D	2				
4131	16	36:D	2	LORTO = 4296;			
4132	16	36:D	2	MADI = 547;			
4133	16	36:D	2	MABADI = 759;			
4134	16	36:D	2	LOKTOFEI = 8330;			
4135	16	36:D	2				
4136	16	36:D	2	MALIKTO = 5514;			
4137	16	36:D	2	KADORTO = 6673;			
4138	16	36:D	2 }				
4139	16	36:D	2				
4140	16	36:D	2	VAR			
4141	16	36:D	2	USEITEM : BOOLEAN;			
4142	16	36:D	3	MP03 : INTEGER;			
4143	16	36:D	4	MP04 : INTEGER;			
4144	16	36:D	5	MP05 : INTEGER;			
4145	16	36:D	6	P24MP06 : INTEGER;			
4146	16	36:D	7	MP07 : INTEGER;			
4147	16	36:D	8	MP08 : INTEGER;			
4148	16	36:D	9	MP09 : INTEGER;			
4149	16	36:D	10	MP0A : INTEGER;			
4150	16	36:D	11	SPELNAME : STRING[80];			
4151	16	36:D	52				
4152	16	36:D	52				
4153	16	37:D	1	PROCEDURE EXITCAST(MP01 : INTEGER); (* P010A25 *)			
4154	16	37:D	2				
4155	16	37:0	0	BEGIN (* EXITCAST *)			

4156	16	37:1	0	GETMSGTX(BASE47, MP01);			
4157	16	37:1	6	P010A1E(BASE47);			
4158	16	37:1	10	DELWIN(BASE10, TRUE);			
4159	16	37:1	16	DSPSFELS;			
4160	16	37:1	18	EXIT(CASTWHAT)			
4161	16	37:0	22	END; (* EXITCAST *)			
4162	16	37:0	34				
4163	16	37:0	34				
4164	16	38:D	1	PROCEDURE CANTCAST; (* P010A26 *)			
4165	16	38:D	1				
4166	16	38:0	0	BEGIN (* CANTCAST *)			
4167	16	38:1	0	EXITCAST(619) (* YOU CAN'T CAST THAT *)			
4168	16	38:0	3	END; (* CANTCAST *)			
4169	16	38:0	18				
4170	16	38:0	18				
4171	16	39:D	1	PROCEDURE CHKFIZZ; (* P010A27 *)			
4172	16	39:D	1				
4173	16	39:0	0	BEGIN (* CHKFIZZ *)			
4174	16	39:1	0	IF FIZZLES > 0 THEN			
4175	16	39:2	6	EXITCAST(620) (* FIZZLE! *)			
4176	16	39:0	9	END; (* CHKFIZZ *)			
4177	16	39:0	24				
4178	16	39:0	24				
4179	16	40:D	1	PROCEDURE CLRWIN; (* P010A28 *)			
4180	16	40:D	1				
4181	16	40:0	0	BEGIN (* CLRWIN *)			
4182	16	40:1	0	CLEARWIN(BASE10, FALSE);			
4183	16	40:1	5	P24MP06 := 6			
4184	16	40:0	5	END; (* CLRWIN *)			
4185	16	40:0	22				
4186	16	40:0	22				
4187	16	41:D	1	PROCEDURE CHKSPCNT(MP02 : INTEGER; (* P010A29 *)			
4188	16	41:D	2	MP01 : INTEGER);			
4189	16	41:D	3				
4190	16	41:0	0	BEGIN (* CHKSPCNT *)			
4191	16	41:1	0	IF USEITEM THEN			
4192	16	41:2	5	EXIT(CHKSPCNT);			
4193	16	41:1	9	WITH CHARACTER[CAMPCHAR] DO			
4194	16	41:2	19	BEGIN			
4195	16	41:3	19	IF (PRIESTSP[MP02] <= 0) OR			
4196	16	41:3	30	(NOT SPELLSKN[MP01]) THEN			
4197	16	41:4	42	CANTCAST			
4198	16	41:2	42	END;			
4199	16	41:2	44				
4200	16	41:0	44	END; (* CHKSPCNT *)			
4201	16	41:0	56				
4202	16	41:0	56				
4203	16	42:D	1	PROCEDURE DECPRIEST(MP01 : INTEGER); (* P010A2A *)			
4204	16	42:D	2				
4205	16	42:0	0	BEGIN (* DECPRIEST *)			
4206	16	42:1	0	IF NOT USEITEM THEN			
4207	16	42:2	6	BEGIN			
4208	16	42:3	6	WITH CHARACTER[CAMPCHAR] DO			
4209	16	42:4	16	BEGIN			
4210	16	42:5	16	PRIESTSP[MP01] := PRIESTSP[MP01] - 1			
4211	16	42:4	33	END;			
4212	16	42:2	36	END;			

4213	16	42:1	36	DSPSPELS;				
4214	16	42:1	38	CHKFIZZ				
4215	16	42:0	38	END; (* DECPRIEST *)				
4216	16	42:0	52					
4217	16	42:0	52					
4218	16	43:D	1	PROCEDURE DOHEAL(MP04 : INTEGER; (* P010A2B *)				
4219	16	43:D	2	MP03 : INTEGER;				
4220	16	43:D	3	MP02 : INTEGER;				
4221	16	43:D	4	MP01 : INTEGER);				
4222	16	43:D	5					
4223	16	43:D	5	VAR				
4224	16	43:D	5	MP05 : INTEGER;				
4225	16	43:D	6					
4226	16	43:0	0	BEGIN (* DOHEAL *)				
4227	16	43:1	0	P24MP06 := 6;				
4228	16	43:1	4	WITH CHARACTER[P24MP06] DO				
4229	16	43:2	14	BEGIN				
4230	16	43:3	14	CHKSPCNT(MP02, MP01);				
4231	16	43:3	18	CLRWIN;				
4232	16	43:3	20	DECPRIEST(MP02);				
4233	16	43:3	23	MP05 := 0;				
4234	16	43:3	26	IF MP04 = -1 THEN				
4235	16	43:4	32	BEGIN				
4236	16	43:5	32	MP05 := HPMAX;				
4237	16	43:5	37	LOSTXYL.POISNAMT[1] := 0;				
4238	16	43:5	47	IF STATUS < DEAD THEN				
4239	16	43:6	54	STATUS := OK				
4240	16	43:4	57	END				
4241	16	43:3	59	ELSE				
4242	16	43:4	61	WHILE MP04 > 0 DO				
4243	16	43:5	66	BEGIN				
4244	16	43:6	66	MP05 := MP05 + (RAND MOD MP03) + 1;				
4245	16	43:6	79	MP04 := MP04 - 1				
4246	16	43:5	80	END;				
4247	16	43:3	86	HPLEFT := HPLEFT + MP05;				
4248	16	43:3	95	IF HPLEFT > HPMAX THEN				
4249	16	43:4	104	HPLEFT := HPMAX;				
4250	16	43:3	111	CLEARWIN(BASE10, TRUE);				
4251	16	43:3	116	PRINTCR(BASE10);				
4252	16	43:3	120	DISP1MSG(BASE10, 623); (* NOW *)				
4253	16	43:3	127	PRINTNUM(BASE10, HPLEFT, 5);				
4254	16	43:3	135	PRPICCH(BASE10, '/');				
4255	16	43:3	140	PRINTNUM(BASE10, HPMAX, 4);				
4256	16	43:3	148	PAUSE2;				
4257	16	43:3	151	DSPSPELS;				
4258	16	43:3	153	IF CAMPCHAR = P24MP06 THEN				
4259	16	43:4	162	DSPSTATS;				
4260	16	43:3	164	DELWIN(BASE10, TRUE);				
4261	16	43:3	170	EXIT(CASTWHAT)				
4262	16	43:2	174	END;				
4263	16	43:0	174	END; (* DOHEAL *)				
4264	16	43:0	188					
4265	16	43:0	188					
4266	16	44:D	1	PROCEDURE DOKANDI; (* P010A2C *)				
4267	16	44:D	1					
4268	16	44:0	0	BEGIN (* DOKANDI *)				
4269	16	44:1	0	CHKSPCNT(5, 42);				

4270	16	44:1	4	DECPRIEST(5);			
4271	16	44:1	7	P010A1C(CAMPCHAR, 2, TRUE)			
4272	16	44:0	12	END; (* DOKANDI *)			
4273	16	44:0	26				
4274	16	44:0	26				
4275	16	45:D	1	PROCEDURE DODIKADO(DIKADOXX : INTEGER); (* P010A2D *)			
4276	16	45:D	2				
4277	16	45:D	2				
4278	16	46:D	1	PROCEDURE DIKADORT; (* P010A2E *)			
4279	16	46:D	1				
4280	16	46:0	0	BEGIN (* DIKADORT *)			
4281	16	46:1	0	P24MP06 := 6;			
4282	16	46:1	4	WITH CHARACTER[P24MP06] DO			
4283	16	46:2	14	BEGIN			
4284	16	46:2	14				
4285	16	46:3	14	IF (RAND MOD 25) <= ATTRIB[VITALITY] THEN			
4286	16	46:4	32	BEGIN			
4287	16	46:5	32	STATUS := OK;			
4288	16	46:5	37	IF DIKADOXX = 5 THEN			
4289	16	46:6	44	HPLEFT := 1			
4290	16	46:5	47	ELSE			
4291	16	46:6	51	HPLEFT := HPMAX;			
4292	16	46:6	58				
4293	16	46:5	58	IF ATTRIB[VITALITY] = 3 THEN			
4294	16	46:6	70	STATUS := LOST			
4295	16	46:5	73	ELSE			
4296	16	46:6	77	ATTRIB[VITALITY] := ATTRIB[VITALITY] - 1			
4297	16	46:4	92	END;			
4298	16	46:4	95				
4299	16	46:3	95	IF STATUS = OK THEN			
4300	16	46:4	102	EXITCAST(624) (* OK *)			
4301	16	46:3	105	ELSE			
4302	16	46:4	109	BEGIN			
4303	16	46:5	109	STATUS := SUCC(STATUS);			
4304	16	46:5	118	EXITCAST(625) (* OOPS! *)			
4305	16	46:4	121	END			
4306	16	46:4	123				
4307	16	46:2	123	END (* WITH *)			
4308	16	46:2	123				
4309	16	46:0	123	END; (* DIKADORT *)			
4310	16	46:0	136				
4311	16	46:0	136				
4312	16	45:0	0	BEGIN (* DODIKADO *)			
4313	16	45:1	0	IF DIKADOXX = 5 THEN			
4314	16	45:2	5	CHKSPCNT(DIKADOXX, 43)			
4315	16	45:1	7	ELSE			
4316	16	45:2	11	CHKSPCNT(DIKADOXX, 50);			
4317	16	45:2	15				
4318	16	45:1	15	CLRWIN;			
4319	16	45:1	17				
4320	16	45:1	17	WITH CHARACTER[P24MP06] DO			
4321	16	45:2	27	BEGIN			
4322	16	45:2	27				
4323	16	45:3	27	IF STATUS < DEAD THEN			
4324	16	45:4	34	EXITCAST(626); (* NOT DEAD *)			
4325	16	45:4	39				
4326	16	45:3	39	IF STATUS = LOST THEN			

4327	16	45:4	46	EXITCAST(627); (* LOST *)		
4328	16	45:4	51			
4329	16	45:3	51	DECPRIEST(DIKADOXX);		
4330	16	45:3	54	IF DIKADOXX = 5 THEN		
4331	16	45:4	59	BEGIN		
4332	16	45:5	59	IF STATUS = DEAD THEN		
4333	16	45:6	66	DIKADORT		
4334	16	45:5	66	ELSE		
4335	16	45:6	70	IF STATUS = ASHES THEN		
4336	16	45:7	77	EXITCAST(628) (* TRY KADORTO *)		
4337	16	45:4	80	END		
4338	16	45:3	82	ELSE		
4339	16	45:4	84	DIKADORT		
4340	16	45:4	84			
4341	16	45:2	84	END (* WITH *)		
4342	16	45:2	86			
4343	16	45:0	86	END; (* DODIKADO *)		
4344	16	45:0	98			
4345	16	45:0	98			
4346	16	47:D	1	PROCEDURE DODUMAPI; (* P010A2F *)		
4347	16	47:D	1			
4348	16	47:0	0	BEGIN (* DODUMAPI *)		
4349	16	47:1	0	WITH CHARACTER[CAMPCHAR] DO		
4350	16	47:2	10	BEGIN		
4351	16	47:3	10	IF NOT USEITEM THEN		
4352	16	47:4	16	IF (MAGESP[1] = 0) OR (NOT SPELLSKN[4]) THEN		
4353	16	47:5	39	CANTCAST;		
4354	16	47:3	41	CHKFIZZ;		
4355	16	47:3	43	IF NOT USEITEM THEN		
4356	16	47:4	49	MAGESP[1] := MAGESP[1] - 1;		
4357	16	47:3	69	DSPPELS;		
4358	16	47:3	71	P010A1C(CAMPCHAR, 3, TRUE)		
4359	16	47:2	76	END; (* WITH *)		
4360	16	47:0	78	END; (* DODUMAPI *)		
4361	16	47:0	90			
4362	16	47:0	90			
4363	16	48:D	1	PROCEDURE DOMALOR; (* P010A30 *)		
4364	16	48:D	1			
4365	16	48:0	0	BEGIN (* DOMALOR *)		
4366	16	48:1	0	WITH CHARACTER[CAMPCHAR] DO		
4367	16	48:2	10	BEGIN		
4368	16	48:3	10	IF NOT USEITEM THEN		
4369	16	48:4	16	IF (MAGESP[7] = 0) OR (NOT SPELLSKN[19]) THEN		
4370	16	48:5	39	CANTCAST;		
4371	16	48:3	41	CHKFIZZ;		
4372	16	48:3	43	IF NOT USEITEM THEN		
4373	16	48:4	49	MAGESP[7] := MAGESP[7] - 1;		
4374	16	48:3	69	P010A1C(CAMPCHAR, 4, TRUE)		
4375	16	48:2	74	END (* WITH *)		
4376	16	48:2	76			
4377	16	48:0	76	END; (* DOMALOR *)		
4378	16	48:0	88			
4379	16	48:0	88			
4380	16	49:D	3	FUNCTION CASTSPEL : BOOLEAN; (* P010A31 *)		
4381	16	49:D	3			
4382	16	49:0	0	BEGIN (* CASTSPEL *)		
4383	16	49:1	0	CASTSPEL := TRUE;		

	4384	16	49:1	3	IF SPELHASH = 6491 THEN (* LATUMAPI *)		
	4385	16	49:2	12	BEGIN		
	4386	16	49:3	12	CHKSPCNT(3, 33);		
	4387	16	49:3	16	DECPRIEST(3);		
	4388	16	49:3	19	IDMONSTR := 10000		
	4389	16	49:2	19	END		
	4390	16	49:1	24	ELSE IF SPELHASH = 2301 THEN (* DIOS *)		
	4391	16	49:3	35	DOHEAL(1, 8, 1, 23)		
	4392	16	49:2	39	ELSE IF SPELHASH = 2889 THEN (* MILWA *)		
	4393	16	49:4	52	BEGIN		
	4394	16	49:5	52	CHKSPCNT(1, 25);		
	4395	16	49:5	56	DECPRIEST(1);		
	4396	16	49:5	59	LIGHT := LIGHT + 30 + (RAND MOD 15)		
	4397	16	49:4	70	END		
	4398	16	49:3	73	ELSE IF SPELHASH = 3245 THEN (* DUMAPIC *)		
	4399	16	49:5	84	DODUMAPI		
	4400	16	49:4	84	ELSE IF SPELHASH = 1185 THEN (* KANDI 1185 1885 *)		
	4401	16	49:6	97	DOKANDI		
	4402	16	49:5	97	ELSE IF SPELHASH = 5333 THEN (* LOMILWA *)		
	4403	16	49:7	110	BEGIN		
	4404	16	49:8	110	CHKSPCNT(3, 31);		
	4405	16	49:8	114	DECPRIEST(3);		
	4406	16	49:8	117	LIGHT := 10000		
	4407	16	49:7	117	END		
	4408	16	49:6	122	ELSE IF SPELHASH = 9463 THEN (* LATUMOFI *)		
	4409	16	49:8	133	BEGIN		
	4410	16	49:9	133	CHKSPCNT(4, 37);		
	4411	16	49:9	137	CLRWIN;		
	4412	16	49:9	139	DECPRIEST(4);		
	4413	16	49:9	142	CHARACTR[P24MP06].LOSTXYL.POISNAMT[1] := 0		
	4414	16	49:8	157	END		
	4415	16	49:7	159	ELSE IF SPELHASH = 2718 THEN (* DIALKO *)		
	4416	16	49:9	170	BEGIN		
	4417	16	49:0	170	CHKSPCNT(3, 32);		
	4418	16	49:0	174	CLRWIN;		
	4419	16	49:0	176	DECPRIEST(3);		
	4420	16	49:0	179	WITH CHARACTR[P24MP06] DO		
	4421	16	49:1	189	BEGIN		
	4422	16	49:2	189	IF (STATUS = PLYZE) OR (STATUS = ASLEEP) THEN		
	4423	16	49:3	202	STATUS := OK		
	4424	16	49:1	205	END (* WITH *)		
	4425	16	49:9	207	END		
	4426	16	49:8	207	ELSE IF SPELHASH = 761 THEN (* DIAL *)		
	4427	16	49:0	218	DOHEAL(2, 8, 4, 35)		
	4428	16	49:9	222	ELSE IF SPELHASH = 4322 THEN (* MAPORFIC *)		
	4429	16	49:1	235	BEGIN		
	4430	16	49:2	235	CHKSPCNT(4, 38);		
	4431	16	49:2	239	DECPRIEST(4);		
	4432	16	49:2	242	ACMOD2 := 2		
	4433	16	49:1	242	END		
	4434	16	49:0	245	ELSE IF SPELHASH = 1614 THEN (* DIALMA *)		
	4435	16	49:2	256	DOHEAL(3,8, 5, 39)		
	4436	16	49:1	260	ELSE IF SPELHASH = 180 THEN (* DI *)		
	4437	16	49:3	273	DODIKADO(5)		
	4438	16	49:2	274	ELSE IF SPELHASH = 547 THEN (* MADI *)		
	4439	16	49:4	287	DOHEAL(-1, -1, 6, 46)		
	4440	16	49:3	293	ELSE IF SPELHASH = 6673 THEN (* KADORTO *)		

4441	16	49:5	306	DODIKADO(7)				
4442	16	49:4	307	ELSE IF SPELHASH = 3128 THEN	(* MALOR *)			
4443	16	49:6	320	DOMALOR				
4444	16	49:5	320	ELSE				
4445	16	49:6	324	CASTSPEL := FALSE				
4446	16	49:6	324					
4447	16	49:0	324	END;	(* CASTSPEL *)			
4448	16	49:0	354					
4449	16	49:0	354					
4450	16	50:D	1	PROCEDURE P010A32(VAR P32MP01 : TLONGSTR);				
4451	16	50:D	2					
4452	16	50:D	2	VAR				
4453	16	50:D	2	P32MP02 : INTEGER;				
4454	16	50:D	3	P32MP03 : STRING[30];				
4455	16	50:D	19					
4456	16	50:D	19	MP13 : INTEGER;				
4457	16	50:D	20	MP14 : INTEGER;				
4458	16	50:D	21					
4459	16	50:D	21	MP15 : INTEGER;				
4460	16	50:D	22	MP16 : ARRAY[1..50] OF INTEGER;				
4461	16	50:D	72					
4462	16	50:D	72					
4463	16	51:D	1	PROCEDURE CALCHASH(VAR SPELNAME : STRING);	(* P010A33 *)			
4464	16	51:D	2					
4465	16	51:D	2	VAR				
4466	16	51:D	2	HASHCALC : INTEGER;				
4467	16	51:D	3	SPELLI : INTEGER;				
4468	16	51:D	4					
4469	16	51:0	0	BEGIN (* CALCHASH *)				
4470	16	51:1	0	SPELHASH := LENGTH(SPELNAME);				
4471	16	51:1	6	FOR SPELLI := 1 TO LENGTH(SPELNAME) DO				
4472	16	51:2	19	BEGIN				
4473	16	51:3	19	IF SPELHASH < 20000 THEN				
4474	16	51:4	28	BEGIN				
4475	16	51:5	28	HASHCALC := ORD(SPELNAME[SPELLI]) - 64;				
4476	16	51:5	35		(* 64 = ORD('A') - 1 *)			
4477	16	51:5	35	SPELHASH := SPELHASH + HASHCALC * HASHCALC * SPELLI				
4478	16	51:4	41	END				
4479	16	51:2	47	END				
4480	16	51:0	47	END;	(* CALCHASH *)			
4481	16	51:0	68					
4482	16	51:0	68					
4483	16	52:D	1	PROCEDURE GTSPELNM(MP01 : INTEGER);	(* P010A34 *)			
4484	16	52:D	2					
4485	16	52:0	0	BEGIN (* GTSPELNM *)				
4486	16	52:1	0	GETMSGTX(P32MP03, 5000 + MP01);	(* HALITO..KADORTO *)			
4487	16	52:1	11	IF P32MP03[1] = '' THEN				
4488	16	52:2	20	COPYSTR(P32MP03, P32MP03, 2, LENGTH(P32MP03) - 1)				
4489	16	52:0	34	END;	(* GTSPELNM *)			
4490	16	52:0	50					
4491	16	52:0	50					
4492	16	53:D	1	PROCEDURE P010A35(MP01 : INTEGER);				
4493	16	53:D	2					
4494	16	53:0	0	BEGIN (* P010A35 *)				
4495	16	53:1	0	IF MP01 = 0 THEN				
4496	16	53:2	5	P32MP03 := ''				
4497	16	53:1	8	ELSE				

4498	16	53:2	15	GTSPELNM(MP01);			
4499	16	53:1	18	P32MP01 := P32MP03			
4500	16	53:0	21	END; (* P010A35 *)			
4501	16	53:0	38				
4502	16	53:0	38				
4503	16	54:D	1	PROCEDURE P010A36;			
4504	16	54:D	1				
4505	16	54:0	0	BEGIN (* P010A36 *)			
4506	16	54:1	0	CALCHASH(P32MP01);			
4507	16	54:1	5	FOR P32MP02 := 1 TO 50 DO			
4508	16	54:2	19	BEGIN			
4509	16	54:3	19	IF SPELHASH = SCENARIO.SPELLHSH[P32MP02] THEN			
4510	16	54:4	34	BEGIN			
4511	16	54:5	34	GTSPELNM(P32MP02);			
4512	16	54:5	39	IF P32MP03 = P32MP01 THEN			
4513	16	54:6	49	EXIT(P010A32)			
4514	16	54:5	53	ELSE			
4515	16	54:6	55	EXIT(P010A36)			
4516	16	54:4	59	END;			
4517	16	54:2	59	END;			
4518	16	54:0	69	END; (* P010A36 *)			
4519	16	54:0	84				
4520	16	54:0	84				
4521	16	55:D	1	PROCEDURE P010A37;			
4522	16	55:D	1				
4523	16	55:D	1	VAR			
4524	16	55:D	1	P37MP01 : TWINDOWP;			
4525	16	55:D	2	MP02 : INTEGER;			
4526	16	55:D	3	MP03 : INTEGER;			
4527	16	55:D	4	MP04 : INTEGER;			
4528	16	55:D	5				
4529	16	55:D	5				
4530	16	56:D	1	PROCEDURE P010A38(MP01 : INTEGER);			
4531	16	56:D	2				
4532	16	56:0	0	BEGIN (* P010A38 *)			
4533	16	56:1	0	P010A35(MP01);			
4534	16	56:1	3	DELWIN(P37MP01, TRUE);			
4535	16	56:1	10	EXIT(P010A37)			
4536	16	56:0	14	END; (* P010A38 *)			
4537	16	56:0	26				
4538	16	56:0	26				
4539	16	55:0	0	BEGIN (* P010A37 *)			
4540	16	55:1	0	P37MP01 := GETWIN(7, 9 - (MP15 + 1) DIV 2,			
4541	16	55:1	10	26, 6 + MP15, 31, TRUE);			
4542	16	55:1	25	DISP1LIN(P37MP01, 1080); (* CAST WHICH SPELL ? *)			
4543	16	55:1	32	PRINTCR(P37MP01);			
4544	16	55:1	36	FOR MP04 := 1 TO MP15 DO			
4545	16	55:2	49	BEGIN			
4546	16	55:3	49	MVCURSOR(P37MP01, 0, MP04 + 1);			
4547	16	55:3	57	PRPICCH(P37MP01, CHR(ORD('A') + MP04 - 1));			
4548	16	55:3	66	PRPICMB(P37MP01, ' ');			
4549	16	55:3	75	GTSPELNM(MP16[MP04]);			
4550	16	55:3	86	PRPICMB(P37MP01, P32MP03);			
4551	16	55:3	93	WHILE P37MP01^.HEAD.HCURSOR < 21 DO			
4552	16	55:4	103	PRPICCH(P37MP01, ' ');			
4553	16	55:3	110	PRPICMB(P37MP01, '(');			
4554	16	55:3	115	MP02 := SCENARIO.Z3[MP16[MP04]];			

4555	16	55:3	133	IF MP16[MP04] < 22 THEN			
4556	16	55:4	146	MP03 := CHARACTER[CAMPCHAR].MAGESP[MP02]			
4557	16	55:3	161	ELSE			
4558	16	55:4	166	MP03 := CHARACTER[CAMPCHAR].PRIESTSP[MP02];			
4559	16	55:3	184	PRINTNUM(P37MP01, MP03, 1);			
4560	16	55:3	190	PRPICCH(P37MP01, '')			
4561	16	55:2	192	END;			
4562	16	55:2	202				
4563	16	55:1	202	MVCURSOR(P37MP01, 0, MP15 + 3);			
4564	16	55:1	212	DISP1LIN(P37MP01, 1081);	(* OR PRESS ~ TO NOT CAST *)		
4565	16	55:1	219	SPELHASH := -1;			
4566	16	55:1	224				
4567	16	55:1	224	REPEAT			
4568	16	55:2	224	GETKEY;			
4569	16	55:2	227	IF INCHAR = CHR(CRETURN) THEN			
4570	16	55:3	232	P010A38(0);			
4571	16	55:2	235	MP04 := ORD(INCHAR) - ORD('A') + 1;			
4572	16	55:2	242	IF (MP04 >= 1) AND (MP04 <= MP15) THEN			
4573	16	55:3	253	BEGIN			
4574	16	55:4	253	SPELHASH := SCENARIO.SPELLHSH[MP16[MP04]];			
4575	16	55:4	271	P010A38(MP16[MP04])			
4576	16	55:3	280	END;			
4577	16	55:3	282				
4578	16	55:2	282	PRINTBEL			
4579	16	55:1	282	UNTIL FALSE			
4580	16	55:1	285				
4581	16	55:0	285	END; (* P010A37 *)			
4582	16	55:0	308				
4583	16	55:0	308				
4584	16	50:0	0	BEGIN (* P010A32 *)			
4585	16	50:1	0	P010A36;			
4586	16	50:1	2	MP15 := 0;			
4587	16	50:1	5	FOR P32MP02 := 1 TO 50 DO			
4588	16	50:2	17	BEGIN			
4589	16	50:3	17	GTSPELNM(P32MP02);			
4590	16	50:3	20	IF P01002F(P32MP01, P32MP03) = 1 THEN			
4591	16	50:4	32	IF CHARACTER[CAMPCHAR].SPELLSKN[P32MP02] THEN			
4592	16	50:5	49	BEGIN			
4593	16	50:6	49	MP15 := MP15 + 1;			
4594	16	50:6	55	MP16[MP15] := P32MP02			
4595	16	50:5	63	END;			
4596	16	50:2	65	END;			
4597	16	50:1	72	SPELHASH := -1;			
4598	16	50:1	77	P32MP01 := '';			
4599	16	50:1	83	IF MP15 = 1 THEN			
4600	16	50:2	89	BEGIN			
4601	16	50:3	89	SPELHASH := SCENARIO.SPELLHSH[MP16[1]];			
4602	16	50:3	106	P010A35(MP16[1])			
4603	16	50:2	114	END			
4604	16	50:1	116	ELSE			
4605	16	50:2	118	IF MP15 > 1 THEN			
4606	16	50:3	124	P010A37			
4607	16	50:3	124				
4608	16	50:0	124	END; (* P010A32 *)			
4609	16	50:0	140				
4610	16	50:0	140				
4611	16	36:0	0	BEGIN (* CASTWHAT *)			

4612	16	36:1	0	SPELNAME := '';			
4613	16	36:1	7	IF BLINES24 THEN			
4614	16	36:2	12	BASE10 := GETWIN(13, 7, 26, 5, 15, TRUE)			
4615	16	36:1	18	ELSE			
4616	16	36:2	27	BASE10 := GETWIN(13, 8, 26, 5, 15, TRUE);			
4617	16	36:1	40	USEITEM := SPELHASH > 0;			
4618	16	36:1	45	IF SPELHASH = -1 THEN			
4619	16	36:2	51	BEGIN			
4620	16	36:3	51	DISP1LIN(BASE10, 629); (* CAST WHAT SPELL ? *)			
4621	16	36:3	58	P010A1D(BASE10);			
4622	16	36:3	61	DISP1MSG(BASE10, 630); (* > *)			
4623	16	36:3	68	MP08 := BASE10^.HEAD.HCURSOR;			
4624	16	36:3	76	MP07 := BASE10^.HEAD.VCURSOR;			
4625	16	36:3	84	SOLICIT(BASE10, SPELNAME, 15);			
4626	16	36:3	91	IF SPELNAME = '' THEN			
4627	16	36:4	100	EXITCAST(9999);			
4628	16	36:3	105	P010A32(SPELNAME);			
4629	16	36:3	109	MVCURSOR(BASE10, MP08, MP07);			
4630	16	36:3	115	PRPICMB(BASE10, SPELNAME);			
4631	16	36:3	121	MP08 := 2;			
4632	16	36:3	124	UNITWRITE(BASE12, MP08, 19, MP08); (* LOOP FOR KEYPRESS *)			
4633	16	36:3	134	IF SPELHASH = -1 THEN			
4634	16	36:4	140	EXITCAST(9999);			
4635	16	36:2	145	END;			
4636	16	36:2	145				
4637	16	36:1	145	IF CASTSPEL THEN			
4638	16	36:2	151	EXITCAST(632); (* DONE! *)			
4639	16	36:1	156	EXITCAST(631) (* WHAT ? *)			
4640	16	36:1	159				
4641	16	36:0	159	END; (* CASTWHAT *)			
4642	16	36:0	174				
4643	16	36:0	174	(*I WIZ4C:CAMP2 *)			
4643	16	36:0	174	(*I WIZ4C:CAMP3 *)			
4644	16	36:0	174				
4645	16	36:0	174	(* CAMP3 *)			
4646	16	36:0	174				
4647	16	57:D	1	PROCEDURE USEITEM; (* P010A39 *)			
4648	16	57:D	1				
4649	16	57:D	1	VAR			
4650	16	57:D	1	THEITEM : TOBJREC;			
4651	16	57:D	24	MP18 : INTEGER;			
4652	16	57:D	25	MP19 : INTEGER;			
4653	16	57:D	26	MP1A : INTEGER;			
4654	16	57:D	27	MP1B : INTEGER;			
4655	16	57:D	28				
4656	16	57:D	28				
4657	16	58:D	1	PROCEDURE P010A3A(MP01 : INTEGER);			
4658	16	58:D	2				
4659	16	58:0	0	BEGIN (* P010A3A *)			
4660	16	58:1	0	GETMSGTX(BASE47, MP01);			
4661	16	58:1	6	P010A1E(BASE47)			
4662	16	58:0	8	END; (* P010A3A *)			
4663	16	58:0	22				
4664	16	58:0	22				
4665	16	59:D	1	PROCEDURE EXITUSE(MP01 : INTEGER); (* P010A3B *)			
4666	16	59:D	2				
4667	16	59:0	0	BEGIN (* EXITUSE *)			

4668	16	59:1	0	P010A3A(MP01);			
4669	16	59:1	3	DELWIN(BASE10, TRUE);			
4670	16	59:1	9	EXIT(USEITEM)			
4671	16	59:0	13	END; (* EXITUSE *)			
4672	16	59:0	26				
4673	16	59:0	26				
4674	16	60:D	1	PROCEDURE P010A3C(MP02 : INTEGER;			
4675	16	60:D	2	MP01 : INTEGER);			
4676	16	60:D	3				
4677	16	60:D	3	VAR			
4678	16	60:D	3	MP03 : TWINDOWP;			
4679	16	60:D	4				
4680	16	60:0	0	BEGIN (* P010A3C *)			
4681	16	60:1	0	IF CHARACTR[CAMPCHAR].POSS.POSSESS[MP1B].EQINDEX - 0 <>			
4682	16	60:1	20	MP02 THEN			
4683	16	60:2	24	EXIT(P010A3C);			
4684	16	60:1	28	MP03 := GETWIN(0, 3, 40, 20, 31, TRUE);			
4685	16	60:1	41	GETMSGTX(BASE47, MP01);			
4686	16	60:1	47	WHILE BASE47 <> '**ERR**' DO			
4687	16	60:2	63	BEGIN			
4688	16	60:3	63	CENTSTR(MP03, BASE47);			
4689	16	60:3	69	MP01 := MP01 + 1;			
4690	16	60:3	74	GETMSGTX(BASE47, MP01)			
4691	16	60:2	77	END;			
4692	16	60:1	82	GETCR;			
4693	16	60:1	85	DELWIN(MP03, TRUE);			
4694	16	60:1	91	DELWIN(BASE10, TRUE);			
4695	16	60:1	97	EXIT(USEITEM)			
4696	16	60:1	101				
4697	16	60:0	101	END; (* P010A3C *)			
4698	16	60:0	116				
4699	16	60:0	116				
4700	16	61:D	1	PROCEDURE P010A3D;			
4701	16	61:D	1				
4702	16	61:D	1	VAR			
4703	16	61:D	1	MP01 : INTEGER;			
4704	16	61:D	2	MP02 : INTEGER;			
4705	16	61:D	3	MP03 : INTEGER;			
4706	16	61:D	4	MP04 : TWINDOWP;			
4707	16	61:D	5				
4708	16	61:D	5				
4709	16	62:D	1	PROCEDURE P010A3E;			
4710	16	62:D	1				
4711	16	62:0	0	BEGIN (* P010A3E *)			
4712	16	62:1	0	CHARACTR[6].POSS.POSSCNT := 8;			
4713	16	62:1	10	DELWIN(MP04, TRUE);			
4714	16	62:1	17	DSPITEMS;			
4715	16	62:1	19	EXIT(USEITEM)			
4716	16	62:0	23	END; (* P010A3E *)			
4717	16	62:0	36				
4718	16	62:0	36				
4719	16	63:D	1	PROCEDURE P010A3F;			
4720	16	63:D	1				
4721	16	63:0	0	BEGIN (* P010A3F *)			
4722	16	63:1	0	PRPICMB(MP04, ' ')			
4723	16	63:0	22	END; (* P010A3F *)			
4724	16	63:0	38				

4725	16	63:0	38				
4726	16	64:D	1	PROCEDURE	P010A40(	MP01 : INTEGER);	
4727	16	64:D	2				
4728	16	64:0	0	BEGIN	(* P010A40 *)		
4729	16	64:1	0	MVCURSOR(	MP04, 19, MP01 - 1);		
4730	16	64:1	10	PRPICCH(	MP04, CHR(ORD('A') + MP01 - 1));		
4731	16	64:1	21	PRPICMB(	MP04, ' ');		
4732	16	64:1	32	IF	BLACKBOX[MP01 - 1] = 0 THEN		
4733	16	64:2	45	P010A3F			
4734	16	64:1	45	ELSE			
4735	16	64:2	49	DISPMSG(	MP04, 14001 + (2 * BLACKBOX[MP01 - 1]))		
4736	16	64:2	67				
4737	16	64:2	67	(*	BLOODSTONE, LANDER'S TURO, AMBER DRAGON, ... *)		
4738	16	64:2	67				
4739	16	64:0	67	END;	(* P010A40 *)		
4740	16	64:0	82				
4741	16	64:0	82				
4742	16	65:D	1	PROCEDURE	P010A41(	MP01 : INTEGER);	
4743	16	65:D	2				
4744	16	65:0	0	BEGIN	(* P010A41 *)		
4745	16	65:1	0	WITH	CHARACTR[6].POSS.POSSESS[MP01] DO		
4746	16	65:2	15	BEGIN			
4747	16	65:3	15	MVCURSOR(	MP04, 0, MP01 - 1);		
4748	16	65:3	25	PRINTNUM(	MP04, MP01, 1);		
4749	16	65:3	33	PRPICCH(	MP04, ' ');		
4750	16	65:3	40	IF	EQINDEX = 0 THEN		
4751	16	65:4	46	P010A3F			
4752	16	65:3	46	ELSE			
4753	16	65:4	50	BEGIN			
4754	16	65:5	50	IF	CURSED THEN		
4755	16	65:6	54	PRPICCH(	MP04, '-');		
4756	16	65:5	58	ELSE			
4757	16	65:6	63	IF	EQUIPED THEN		
4758	16	65:7	67	PRPICCH(	MP04, '*');		
4759	16	65:6	71	ELSE			
4760	16	65:7	76	PRPICCH(	MP04, ' ');		
4761	16	65:5	83	DISPMSG(	MP04, 14001 + (2 * EQINDEX))		
4762	16	65:5	94				
4763	16	65:4	94	END;			
4764	16	65:4	97				
4765	16	65:2	97	END;	(* WITH *)		
4766	16	65:2	97				
4767	16	65:0	97	END;	(* P010A41 *)		
4768	16	65:0	110				
4769	16	65:0	110				
4770	16	66:D	1	PROCEDURE	P010A42(	MP02 : INTEGER;	
4771	16	66:D	2		MP01 : INTEGER);		
4772	16	66:D	3				
4773	16	66:D	3	VAR			
4774	16	66:D	3	MP03	: INTEGER;		
4775	16	66:D	4				
4776	16	66:0	0	BEGIN	(* P010A42 *)		
4777	16	66:1	0	FOR	MP03 := MP02 TO MP01 DO		
4778	16	66:2	11	BEGIN			
4779	16	66:3	11	DISPMSG(	MP04, MP03);		
4780	16	66:3	18	PRINTCR(	MP04)		
4781	16	66:2	21	END;			

4782	16	66:1	31	PRINTCR(MP04)			
4783	16	66:0	34	END; (* P010A42 *)			
4784	16	66:0	52				
4785	16	66:0	52				
4786	16	67:D	1	PROCEDURE P010A43(MP01 : INTEGER);			
4787	16	67:D	2				
4788	16	67:D	2	VAR			
4789	16	67:D	2	MP02 : INTEGER;			
4790	16	67:D	3	MP03 : INTEGER;			
4791	16	67:D	4	MP04 : INTEGER;			
4792	16	67:D	5	MP05 : INTEGER;			
4793	16	67:D	6				
4794	16	67:0	0	BEGIN (* P010A43 *)			
4795	16	67:1	0	WITH CHARACTER[6].POSS.POSSESS[MP01] DO			
4796	16	67:2	15	BEGIN			
4797	16	67:3	15	IF (EQINDEX = 0) OR (CURSED) OR (EQUIPED) THEN			
4798	16	67:4	27	EXIT(P010A43);			
4799	16	67:3	31	MP02 := 0;			
4800	16	67:3	34	FOR MP05 := 1 TO 19 DO			
4801	16	67:4	45	IF MP02 = 0 THEN			
4802	16	67:5	50	IF BLACKBOX[MP05 - 1] = 0 THEN			
4803	16	67:6	63	MP02 := MP05;			
4804	16	67:3	73	IF MP02 = 0 THEN			
4805	16	67:4	78	EXIT(P010A43);			
4806	16	67:3	82	BLACKBOX[MP02 - 1] := EQINDEX;			
4807	16	67:3	93	EQINDEX := 0;			
4808	16	67:3	98	P010A41(MP01);			
4809	16	67:3	101	P010A40(MP02)			
4810	16	67:3	102				
4811	16	67:2	102	END; (* WITH *)			
4812	16	67:2	104				
4813	16	67:0	104	END; (* P010A43 *)			
4814	16	67:0	118				
4815	16	67:0	118				
4816	16	68:D	1	PROCEDURE P010A44(MP01 : INTEGER);			
4817	16	68:D	2				
4818	16	68:D	2	VAR			
4819	16	68:D	2	MP02 : INTEGER;			
4820	16	68:D	3	MP03 : INTEGER;			
4821	16	68:D	4	MP04 : INTEGER;			
4822	16	68:D	5	MP05 : INTEGER;			
4823	16	68:D	6				
4824	16	68:0	0	BEGIN (* P010A44 *)			
4825	16	68:1	0	IF BLACKBOX[MP01 - 1] = 0 THEN			
4826	16	68:2	13	EXIT(P010A44);			
4827	16	68:1	17	MP02 := 0;			
4828	16	68:1	20	FOR MP05 := 1 TO 8 DO			
4829	16	68:2	31	IF MP02 = 0 THEN			
4830	16	68:3	36	IF CHARACTER[6].POSS.POSSESS[MP05].EQINDEX = 0 THEN			
4831	16	68:4	54	MP02 := MP05;			
4832	16	68:1	64	IF MP02 = 0 THEN			
4833	16	68:2	69	EXIT(P010A44);			
4834	16	68:1	73	CHARACTER[6].POSS.POSSESS[MP02].EQINDEX :=			
4835	16	68:1	88	BLACKBOX[MP01 - 1];			
4836	16	68:1	98	BLACKBOX[MP01 - 1] := 0;			
4837	16	68:1	108	P010A41(MP02);			
4838	16	68:1	111	P010A40(MP01)			

4839	16	68:1	112					
4840	16	68:1	112					
4841	16	68:0	112	END;	(* P010A44 *)			
4842	16	68:0	128					
4843	16	68:0	128					
4844	16	61:0	0	BEGIN	(* P010A3D *)			
4845	16	61:1	0	DELWIN	(BASE10, FALSE);			
4846	16	61:1	6	IF BLINES24	THEN			
4847	16	61:2	11	MP04 :=	GETWIN(0, 3, 40, 21, 16, TRUE)			
4848	16	61:1	17	ELSE				
4849	16	61:2	26	MP04 :=	GETWIN(0, 4, 40, 21, 16, TRUE);			
4850	16	61:2	39					
4851	16	61:1	39	WITH CHARACTER[6].POSS	DO			
4852	16	61:2	49	BEGIN				
4853	16	61:3	49	FOR MP03 :=	POSSCNT + 1 TO 8 DO			
4854	16	61:4	63	BEGIN				
4855	16	61:5	63	WITH POSSESS[MP03]	DO			
4856	16	61:6	73	BEGIN				
4857	16	61:7	73	EQINDEX :=	0;			
4858	16	61:7	78	CURSED :=	FALSE;			
4859	16	61:7	83	EQUIPED :=	FALSE;			
4860	16	61:7	86	IDENTIF :=	FALSE			
4861	16	61:6	89	END;				
4862	16	61:4	91	END;				
4863	16	61:4	98					
4864	16	61:2	98	END;	(* WITH POSS *)			
4865	16	61:2	98					
4866	16	61:1	98	FOR MP03 :=	1 TO 8 DO			
4867	16	61:2	109	P010A41(MP03);				
4868	16	61:1	119	MVCURSOR(MP04, 0, 9);				
4869	16	61:1	125	P010A42(280, 282);				
4870	16	61:1	133	P010A42(283, 285);				
4871	16	61:1	141	P010A42(286, 287);				
4872	16	61:1	149	FOR MP03 :=	1 TO 19 DO			
4873	16	61:2	160	P010A40(MP03);				
4874	16	61:2	170					
4875	16	61:1	170	REPEAT				
4876	16	61:2	170	GETKEY;				
4877	16	61:2	173	IF INCHAR =	CHR(CRETURN) THEN			
4878	16	61:3	178	P010A3E				
4879	16	61:2	178	ELSE IF (INCHAR >= '1') AND (INCHAR <= '8') THEN				
4880	16	61:4	191	P010A43(ORD(INCHAR) - ORD('0'))				
4881	16	61:3	194	ELSE IF (INCHAR >= 'A') AND (INCHAR <= 'S') THEN				
4882	16	61:5	207	P010A44(ORD(INCHAR) - ORD('A') + 1)				
4883	16	61:1	212	UNTIL FALSE				
4884	16	61:1	214					
4885	16	61:0	214	END;	(* P010A3D *)			
4886	16	61:0	238					
4887	16	61:0	238					
4888	16	57:0	0	BEGIN	(* USEITEM *)			
4889	16	57:1	0	IF BLINES24	THEN			
4890	16	57:2	5	BASE10 :=	GETWIN(13, 7, 26, 5, 15, TRUE)			
4891	16	57:1	11	ELSE				
4892	16	57:2	20	BASE10 :=	GETWIN(13, 8, 26, 5, 15, TRUE);			
4893	16	57:1	33	DISP1LIN(BASE10, 633);		(* USE ITEM (#) ? *)		
4894	16	57:1	40	P010A1D(BASE10);				
4895	16	57:1	43					

4896	16	57:1	43	WITH CHARACTER[CAMPCHAR].POSS DO			
4897	16	57:2	55	BEGIN			
4898	16	57:3	55	MP1B := P01001E(POSSCNT);			
4899	16	57:3	65	IF MP1B = 0 THEN			
4900	16	57:4	71	EXITUSE(9999);			
4901	16	57:4	76				
4902	16	57:3	76	WITH POSSESS[MP1B] DO			
4903	16	57:4	88	BEGIN			
4904	16	57:5	88	MOVELEFT(BASE55B[
4905	16	57:5	91	GETREC(4, EQINDEX - 0, SIZEOF(TOBJREC))],			
4906	16	57:5	103	THEITEM,			
4907	16	57:5	106	SIZEOF(TOBJREC));			
4908	16	57:5	109	IF BASCIIHU THEN			
4909	16	57:6	114	BEGIN			
4910	16	57:7	114	UNITWRITE(BASE12, THEITEM, 33, GETADDR(BASE89B));			
4911	16	57:7	131	MOVELEFT(BASE89B[1], THEITEM, SIZEOF(TOBJREC))			
4912	16	57:6	141	END;			
4913	16	57:5	141	IF THEITEM.SPELLPWR = 50 THEN			
4914	16	57:6	146	P010A3D;			
4915	16	57:5	148	IF THEITEM.SPELLPWR = 28 THEN			
4916	16	57:6	153	EXITUSE(290 + RAND MOD 3); (* HEE! HEE! HEE! *)			
4917	16	57:6	166	(* HAA! HAA! HAA! *)			
4918	16	57:6	166	(* GOTCHA, FOOL!! *)			
4919	16	57:5	166	IF (EQINDEX - 0) = 20 THEN			
4920	16	57:6	175	EXITUSE(293); (* CLAP! CLAP! *)			
4921	16	57:5	180	P010A3C(90, 410);			
4922	16	57:5	186	P010A3C(108, 440);			
4923	16	57:5	192	P010A3C(109, 420);			
4924	16	57:5	198	IF (EQINDEX - 0) = 87 THEN			
4925	16	57:6	207	BEGIN			
4926	16	57:7	207	BASE7F4[8 - 1] := 1;			
4927	16	57:7	217	EXITUSE(294) (* G'WAN! GEDDOUDAHERE! *)			
4928	16	57:6	220	END;			
4929	16	57:5	222	IF THEITEM.SPELLPWR = 0 THEN			
4930	16	57:6	227	EXITUSE(634); (* POWERLESS *)			
4931	16	57:5	232	IF THEITEM.OBJTYPE <> SPECIAL THEN			
4932	16	57:6	237	IF NOT EQUIPED THEN			
4933	16	57:7	243	EXITUSE(635); (* NOT EQUIPPED *)			
4934	16	57:5	248	IF (RAND MOD 4000) < (40 * THEITEM.CHGCHANC) THEN			
4935	16	57:6	263	EQINDEX := THEITEM.CHANGETO + 0;			
4936	16	57:5	271	DELWIN(BASE10, FALSE);			
4937	16	57:5	277	CASTWHAT(SCENARIO.SPELLHSH[THEITEM.SPELLPWR]);			
4938	16	57:5	286	DSPITEMS			
4939	16	57:4	286	END; (* WITH POSSESS *)			
4940	16	57:4	288				
4941	16	57:2	288	END; (* WITH *)			
4942	16	57:2	288				
4943	16	57:0	288	END; (* USEITEM *)			
4944	16	57:0	300				
4945	16	57:0	300				
4946	16	69:D	1	PROCEDURE P010A45; (* DROP ITEM *)			
4947	16	69:D	1				
4948	16	69:D	1	VAR			
4949	16	69:D	1	MP01 : INTEGER;			
4950	16	69:D	2	MP02 : INTEGER;			
4951	16	69:D	3	MP03 : INTEGER;			
4952	16	69:D	4	MP04 : INTEGER;			

4953	16	69:D	5				
4954	16	69:D	5				
4955	16	70:D	1	PROCEDURE	P010A46(MP01 : INTEGER);		
4956	16	70:D	2				
4957	16	70:0	0	BEGIN (* P010A46 *)			
4958	16	70:1	0	GETMSGTX(BASE47, MP01);			
4959	16	70:1	6	P010A1E(BASE47);			
4960	16	70:1	10	DELWIN(BASE10, TRUE);			
4961	16	70:1	16	EXIT(P010A45)			
4962	16	70:0	20	END; (* P010A46 *)			
4963	16	70:0	32				
4964	16	70:0	32				
4965	16	69:0	0	BEGIN (* P010A45 *)			
4966	16	69:1	0	IF BLINES24 THEN			
4967	16	69:2	5	BASE10 := GETWIN(13, 7, 26, 5, 15, TRUE)			
4968	16	69:1	11	ELSE			
4969	16	69:2	20	BASE10 := GETWIN(13, 8, 26, 5, 15, TRUE);			
4970	16	69:1	33	DISP1LIN(BASE10, 636); (* DROP ITEM (#) ? *)			
4971	16	69:1	40	P010A1D(BASE10);			
4972	16	69:1	43	WITH CHARACTER[CAMPCHAR].POSS DO			
4973	16	69:2	55	BEGIN			
4974	16	69:3	55	MP04 := P01001E(POSSCNT);			
4975	16	69:3	64	IF MP04 = 0 THEN			
4976	16	69:4	69	P010A46(9999);			
4977	16	69:3	74	WITH POSSESS[MP04] DO			
4978	16	69:4	84	BEGIN			
4979	16	69:5	84	IF CURSED THEN			
4980	16	69:6	88	P010A46(637); (* CURSED *)			
4981	16	69:5	93	IF EQUIPED THEN			
4982	16	69:6	97	P010A46(638); (* EQUIPPED *)			
4983	16	69:5	102	IF EQINDEX = 4 THEN			
4984	16	69:6	108	IF BASE7F4[6 - 1] = - 1 THEN			
4985	16	69:7	122	BEGIN			
4986	16	69:8	122	BASE7F4[6 - 1] := 5;			
4987	16	69:8	132	BASE7F4[10 - 1] := MAZEX;			
4988	16	69:8	142	BASE7F4[11 - 1] := MAZEY;			
4989	16	69:8	152	BASE7F4[12 - 1] := MAZELEV			
4990	16	69:7	160	END;			
4991	16	69:7	162				
4992	16	69:4	162	END; (* WITH POSSESS *)			
4993	16	69:4	162				
4994	16	69:3	162	FOR MP03 := MP04 + 1 TO POSSCNT DO			
4995	16	69:4	176	POSSESS[MP03 - 1] := POSSESS[MP03];			
4996	16	69:3	203	POSSCNT := POSSCNT - 1;			
4997	16	69:3	209	DSPITEMS;			
4998	16	69:3	211	P010A46(639) (* DROPPED *)			
4999	16	69:3	214				
5000	16	69:2	214	END; (* WITH *)			
5001	16	69:2	216				
5002	16	69:0	216	END; (* P010A45 *)			
5003	16	69:0	230				
5004	16	69:0	230				
5005	16	71:D	1	PROCEDURE	CAMPDO; (* P010A47 *)		
5006	16	71:D	1				
5007	16	71:D	1	VAR			
5008	16	71:D	1	MP01 : INTEGER;			
5009	16	71:D	2				

5010	16	71:D	2				
5011	16	71:0	0	BEGIN	(* CAMPDO *)		
5012	16	71:0	0				
5013	16	71:1	0	MP01	:= 2;		
5014	16	71:1	3	IF	BLINES24 THEN		
5015	16	71:2	8	BASE10	:= GETWIN(0, 20, 40, 4, 8, TRUE)		
5016	16	71:1	14	ELSE			
5017	16	71:2	23	BASE10	:= GETWIN(0, 21, 40, 4, 8, TRUE);		
5018	16	71:1	36	MP03	:= MENUINDX(BASE10, 649);		
5019	16	71:1	48		(* R)EAD(E)QUIP(D)ROP(S)PELL(U)SE(L)EAVE *)		
5020	16	71:1	48	IF	MP03 = 5 THEN		
5021	16	71:2	55	MP03	:= -1;		
5022	16	71:1	60	DELWIN	(BASE10, FALSE);		
5023	16	71:1	66				
5024	16	71:1	66	CASE	MP03 OF		
5025	16	71:1	71	-1:	EXIT(CAMPDO);		
5026	16	71:1	77	1:	BEGIN		
5027	16	71:3	77	BASE13	:= 12;		
5028	16	71:3	80	BASE09	:= CAMPCHAR;		
5029	16	71:3	85	EXIT	(P010A1B)		
5030	16	71:2	89	END;			
5031	16	71:1	91	0:	P010A1C(CAMPCHAR, 0, FALSE);		
5032	16	71:1	100	2:	P010A45;		
5033	16	71:1	104	3:	CASTWHAT(-1);		
5034	16	71:1	110	4:	USEITEM;		
5035	16	71:1	114	END;			
5036	16	71:1	134				
5037	16	71:0	134	END;	(* CAMPDO *)		
5038	16	71:0	146				
5039	16	71:0	146				
5040	16	72:D	1	PROCEDURE	CHEVRONS; (* P010A48 *)		
5041	16	72:D	1				
5042	16	72:D	1	VAR			
5043	16	72:D	1	AWARDX	: INTEGER;		
5044	16	72:D	2	BAWARDS	: PACKED ARRAY[0..15] OF BOOLEAN;		
5045	16	72:D	3				
5046	16	72:D	3				
5047	16	72:0	0	BEGIN	(* CHEVRONS *)		
5048	16	72:1	0	MOVELEFT	(CHARACTER[CAMPCHAR].LOSTXYL.AWARDS[4], BAWARDS, 2);		
5049	16	72:1	22	BASE47	:= '>!\$#&*<?BCPCODG@';		
5050	16	72:1	45	FOR	AWARDX := 0 TO 15 DO		
5051	16	72:2	56	IF	BAWARDS[AWARDX] THEN		
5052	16	72:3	65	PRPICCH	(CAMPWIN, BASE47[AWARDX + 1]);		
5053	16	72:3	82				
5054	16	72:0	82	END;	(* CHEVRONS *)		
5055	16	72:0	96				
5056	16	72:0	96				
5057	16	31:0	0	BEGIN	(* INSPECT *)		
5058	16	31:0	0				
5059	16	31:1	0	CAMPCHAR	:= BASE09; (* CHARACTER INDEX 1..6 (?) *)		
5060	16	31:1	3	IF	CAMPWIN = NIL THEN		
5061	16	31:2	8	BEGIN			
5062	16	31:3	8	WITH	CHARACTER[CAMPCHAR] DO		
5063	16	31:4	16	BEGIN			
5064	16	31:5	16	IF	BLINES24 THEN		
5065	16	31:6	21	CAMPWIN	:= GETWIN(0, 3, 40, 17, 7, TRUE)		
5066	16	31:5	27	ELSE			

5067	16	31:6	36	CAMPWIN := GETWIN(0, 4, 40, 17, 7, TRUE);		
5068	16	31:5	49	PRPICMB(CAMPWIN, NAME);		
5069	16	31:5	54	PRPICCH(CAMPWIN, ' ');		
5070	16	31:5	59	PRPICCH(CAMPWIN, 'L');		
5071	16	31:5	64	PRINTNUM(CAMPWIN, CHARLEV, 3);		
5072	16	31:5	72	PRPICCH(CAMPWIN, ' ');		
5073	16	31:5	77	GETMSGTX(BASE47, 10009 + ORD(ALIGN)); (* GOOD,...,EVIL *)		
5074	16	31:5	89	COPYSTR(BASE47, BASE47, 1, 1);		
5075	16	31:5	98	PRPICMB(CAMPWIN, BASE47);		
5076	16	31:5	104	PRPICCH(CAMPWIN, '-');		
5077	16	31:5	109	GETMSGTX(BASE47, 10030 + ORD(CLASS)); (* FIGHTER,...,NINJA *)		
5078	16	31:5	121	COPYSTR(BASE47, BASE47, 1, 3);		
5079	16	31:5	130	PRPICMB(CAMPWIN, BASE47);		
5080	16	31:5	136	PRPICCH(CAMPWIN, ' ');		
5081	16	31:5	141	GETMSGTX(BASE47, 9999 + ORD(RACE)); (* HUMAN,...,HOBBIT *)		
5082	16	31:5	153	PRPICMB(CAMPWIN, BASE47);		
5083	16	31:5	159	PRPICCH(CAMPWIN, ' ');		
5084	16	31:5	164			
5085	16	31:5	164	CHEVRONS;		
5086	16	31:5	166			
5087	16	31:4	166	END;		
5088	16	31:2	166	END;		
5089	16	31:2	166			
5090	16	31:1	166	DSPSTATS;		
5091	16	31:1	168	DSPSPELS;		
5092	16	31:1	170	DSPITEMS;		
5093	16	31:1	172			
5094	16	31:1	172	BASE2B := BASE13;		
5095	16	31:1	176			
5096	16	31:1	176	REPEAT		
5097	16	31:2	176	CAMPDO		
5098	16	31:1	176	UNTIL MP03 = -1;		
5099	16	31:1	184	DELWIN(CAMPWIN, FALSE)		
5100	16	31:1	187			
5101	16	31:0	187	END; (* INSPECT *)		
5102	16	31:0	206			
5103	16	31:0	206			
5104	16	73:D	1	PROCEDURE P010A49;		
5105	16	73:D	1			
5106	16	73:0	0	BEGIN (* P010A49 *)		
5107	16	73:1	0	DRAWSCR2(WINCHAIN);		
5108	16	73:1	4	DELWIN(CAMPTIT, FALSE);		
5109	16	73:1	10	BASE13 := 18;		
5110	16	73:1	13	EXIT(P010A1B)		
5111	16	73:0	17	END; (* P010A49 *)		
5112	16	73:0	30			
5113	16	73:0	30			
5114	16	27:0	0	BEGIN (* P010A1B *)		
5115	16	27:1	0	FOR P1BMP01 := 1 TO 8 DO		
5116	16	27:2	14	OBJIDS[P1BMP01] := -1;		
5117	16	27:1	29	IF (BASE13 = 16) OR (BASE13 = 25) THEN		
5118	16	27:2	40	BEGIN		
5119	16	27:3	40	BASE13 := BASE2B;		
5120	16	27:3	44	IF BASE13 = 10 THEN		
5121	16	27:4	50	BEGIN		
5122	16	27:5	50	INSPECT;		
5123	16	27:5	52	P010A49		

5124	16	27:4	52	END;				
5125	16	27:2	54	END;				
5126	16	27:1	54	IF CAMPTIT = NIL THEN				
5127	16	27:2	59	CAMPTIT := GTTITWIN(652, 0, 1, 1); (* CAMP *)				
5128	16	27:1	72	FOR P1BMP01 := 1 TO 8 DO				
5129	16	27:2	86	OBJIDS[P1BMP01] := -1;				
5130	16	27:1	101	BASE09 := 6; (* CHARACTER INDEX *)				
5131	16	27:1	104	INSPECT;				
5132	16	27:1	106	P010A49;				
5133	16	27:1	108					
5134	16	27:0	108	END; (* P010A1B *)				
5135	16	27:0	124					
5136	16	27:0	124					
5137	16	1:0	0	BEGIN (* CAMP MAIN LINE P010A01 *)				
5138	16	1:1	0	IF (BASE13 = 22) OR (BASE13 = 9) OR (BASE13 = 20) THEN				
5139	16	1:2	16	P010A02				
5140	16	1:1	16	ELSE				
5141	16	1:2	20	REPEAT				
5142	16	1:2	20					
5143	16	1:2	20	(* BASE09 IS CHARACTER INDEX 1..6 (?) *)				
5144	16	1:2	20					
5145	16	1:3	20	P010A1B;				
5146	16	1:3	22	IF BASE13 = 22 THEN				
5147	16	1:4	28	P010A02;				
5148	16	1:2	30	UNTIL BASE13 <> 22;				
5149	16	1:2	36					
5150	16	1:0	36	END; (* CAMP MAIN LINE P010A01 *)				
5151	16	1:0	50					
5152	16	1:0	50					
5153	16	1:0	50	(*I WIZ4C:CAMP3 *)				
5154	16	1:0	50					
5154	16	1:0	50	(*I WIZ4B:RUNNER *)				
5155	16	1:0	50					
5156	17	1:D	1	SEGMENT PROCEDURE RUNNER; (* P010B01 *)				
5157	17	1:D	1					
5158	17	1:D	1	CONST				
5159	17	1:D	1	NORTH = 0;				
5160	17	1:D	1	EAST = 1;				
5161	17	1:D	1	SOUTH = 2;				
5162	17	1:D	1	WEST = 3;				
5163	17	1:D	1					
5164	17	1:D	1	TYPE				
5165	17	1:D	1	TMAZEDAT = PACKED ARRAY[0..3003] OF 0..255;				
5166	17	1:D	1					
5167	17	1:D	1	VAR				
5168	17	1:D	1	INITTURN : BOOLEAN;				
5169	17	1:D	2	NEEDDRMZ : BOOLEAN;				
5170	17	1:D	3	NEEDDRAW : BOOLEAN;				
5171	17	1:D	4	BSPIN : BOOLEAN;				
5172	17	1:D	5	LPIWIN : TWINDOWP;				
5173	17	1:D	6	CSIOWIN : TWINDOWP;				
5174	17	1:D	7					
5175	17	1:D	7	MAZE : TMAZE;				
5176	17	1:D	454					
5177	17	1:D	454	BMVTREB : BOOLEAN;				
5178	17	1:D	455	BMVORACL : BOOLEAN;				
5179	17	1:D	456	SPINCNT : INTEGER;				

	5180	17	1:D	457	UNUSED	: INTEGER;				
	5181	17	1:D	458						
	5182	17	1:D	458	ORACLEY	: INTEGER;				
	5183	17	1:D	459	ORACLEX	: INTEGER;				
	5184	17	1:D	460	MZLVORIG	: INTEGER;				
	5185	17	1:D	461	COMMAND	: INTEGER;				
	5186	17	1:D	462	CHOICES	: STRING[30];	(* MP1CE *)			
	5187	17	1:D	478						
	5188	17	1:D	478	MAZEBLK0	: PACKED ARRAY[0..61] OF	(* MAZE.INFO *)			
	5189	17	1:D	478		PACKED RECORD				
	5190	17	1:D	478		A: 0..255;				
	5191	17	1:D	478		B: 0..255;				
	5192	17	1:D	478		C: INTEGER;				
	5193	17	1:D	478		END;				
	5194	17	1:D	602						
	5195	17	1:D	602	MAZEDATA	: TMZEDAT;				
	5196	17	1:D	2104						
	5197	17	1:D	2104	MAZDAT00	: INTEGER;	(* INTERNAL ADDRESS FOR MAZEDATA *)			
	5198	17	1:D	2105						
	5199	17	1:D	2105						
	5200	17	2:D	1	PROCEDURE DRAWMAZE;	(* P010B02 *)				
	5201	17	2:D	1						
	5202	17	2:D	1	TYPE					
	5203	17	2:D	1	ARECORD	= RECORD				
	5204	17	2:D	1		A : INTEGER;				
	5205	17	2:D	1		B : INTEGER;				
	5206	17	2:D	1		C : INTEGER;				
	5207	17	2:D	1		D : INTEGER;				
	5208	17	2:D	1		E : INTEGER;				
	5209	17	2:D	1		F : INTEGER;				
	5210	17	2:D	1		G : INTEGER;				
	5211	17	2:D	1		END;				
	5212	17	2:D	1	VAR					
	5213	17	2:D	1	RIGHTCOL	: INTEGER;				
	5214	17	2:D	2	LEFTCOL	: INTEGER;				
	5215	17	2:D	3	Y4DRAW	: INTEGER;				
	5216	17	2:D	4	X4DRAW	: INTEGER;				
	5217	17	2:D	5	UNUSED	: INTEGER;				
	5218	17	2:D	6	NOTDARK	: BOOLEAN;				
	5219	17	2:D	7	GOTLIGHT	: BOOLEAN;				
	5220	17	2:D	8	P02MP08	: ARECORD;				
	5221	17	2:D	15	P02MP0F	: ARECORD;				
	5222	17	2:D	22						
	5223	17	2:D	22						
	5224	17	3:D	1	PROCEDURE EXITDRMZ;	(* P010B03 *)				
	5225	17	3:D	1						
	5226	17	3:0	0	BEGIN	(* EXITDRMZ *)				
	5227	17	3:1	0	UNITWRITE	(BASE12, MAINWIN^, 3, 0);	(* DISPLAY WINDOW *)			
	5228	17	3:1	10	EXIT	(DRAWMAZE)				
	5229	17	3:0	14	END;	(* EXITDRMZ *)				
	5230	17	3:0	26						
	5231	17	3:0	26						
	5232	17	4:D	1	PROCEDURE DRMZTHNG	(MP01 : INTEGER);	(* P010B04 *)			
	5233	17	4:D	2						
	5234	17	4:0	0	BEGIN	(* DRMZTHNG *)				
	5235	17	4:1	0	IF	MP01 < 0 THEN				
	5236	17	4:2	5	EXIT	(DRMZTHNG);				

5237	17	4:1	9	P02MP08.A := LEFTCOL;			
5238	17	4:1	15	P02MP08.B := RIGHTCOL;			
5239	17	4:1	21	P02MP08.E := MAZEBLK0[MP01].A;			
5240	17	4:1	34	P02MP08.F := MAZEBLK0[MP01].B;			
5241	17	4:1	47	P02MP08.G := MAZDAT00 + MAZEBLK0[MP01].C;			
5242	17	4:1	63	UNITWRITE(BASE12, P02MP08, 34, ORD(MAINWIN))			
5243	17	4:0	75	END; (* DRMZTHNG *)			
5244	17	4:0	88				
5245	17	4:0	88				
5246	17	5:D	1	PROCEDURE DRMZTHN2(MP03 : INTEGER; (* P010B05 *)			
5247	17	5:D	2	MP02 : INTEGER;			
5248	17	5:D	3	MP01 : INTEGER);			
5249	17	5:D	4				
5250	17	5:0	0	BEGIN (* DRMZTHN2 *)			
5251	17	5:1	0	IF MP03 < 0 THEN			
5252	17	5:2	5	EXIT(DRMZTHN2);			
5253	17	5:1	9	P02MP0F.A := LEFTCOL;			
5254	17	5:1	15	P02MP0F.B := RIGHTCOL;			
5255	17	5:1	21	P02MP0F.E := MAZEBLK0[MP03].A;			
5256	17	5:1	34	P02MP0F.F := MAZEBLK0[MP03].B;			
5257	17	5:1	47	P02MP0F.C := MP02;			
5258	17	5:1	51	P02MP0F.D := MP01;			
5259	17	5:1	55	P02MP0F.G := MAZDAT00 + MAZEBLK0[MP03].C;			
5260	17	5:1	71	UNITWRITE(BASE12, P02MP0F, 34, ORD(MAINWIN))			
5261	17	5:0	83	END; (* DRMZTHN2 *)			
5262	17	5:0	96				
5263	17	5:0	96				
5264	17	6:D	1	PROCEDURE SHFTPOS(VAR X : INTEGER; (* P010B06 *)			
5265	17	6:D	2	VAR Y : INTEGER;			
5266	17	6:D	3	RIGHSHFT : INTEGER;			
5267	17	6:D	4	FRWDSHFT : INTEGER);			
5268	17	6:D	5				
5269	17	6:0	0	BEGIN (* SHFTPOS *)			
5270	17	6:1	0	CASE DIRECTIO OF			
5271	17	6:1	3	NORTH:			
5272	17	6:2	3	BEGIN			
5273	17	6:3	3	X := X + RIGHSHFT;			
5274	17	6:3	9	Y := Y + FRWDSHFT			
5275	17	6:2	12	END;			
5276	17	6:1	17	EAST:			
5277	17	6:2	17	BEGIN			
5278	17	6:3	17	X := X + FRWDSHFT;			
5279	17	6:3	23	Y := Y - RIGHSHFT			
5280	17	6:2	26	END;			
5281	17	6:1	31	SOUTH:			
5282	17	6:2	31	BEGIN			
5283	17	6:3	31	X := X - RIGHSHFT;			
5284	17	6:3	37	Y := Y - FRWDSHFT			
5285	17	6:2	40	END;			
5286	17	6:1	45	WEST:			
5287	17	6:2	45	BEGIN			
5288	17	6:3	45	X := X - FRWDSHFT;			
5289	17	6:3	51	Y := Y + RIGHSHFT			
5290	17	6:2	54	END;			
5291	17	6:1	59	END;			
5292	17	6:1	74				
5293	17	6:1	74	X := (X + 20) MOD 20;			

5294	17	6:1	82	Y := (Y + 20) MOD 20			
5295	17	6:1	87				
5296	17	6:0	87	END; (* SHFTPOS *)			
5297	17	6:0	102				
5298	17	6:0	102				
5299	17	7:D	3	FUNCTION ISLIGHT(RIGHSHFT : INTEGER; (* P010B07 *)			
5300	17	7:D	4	FRWDSHFT : INTEGER) : BOOLEAN;			
5301	17	7:D	5				
5302	17	7:D	5	VAR			
5303	17	7:D	5	SQARTYPE : INTEGER;			
5304	17	7:D	6	Y : INTEGER;			
5305	17	7:D	7	X : INTEGER;			
5306	17	7:D	8				
5307	17	7:D	8				
5308	17	7:0	0	BEGIN (* ISLIGHT *)			
5309	17	7:1	0	X := X4DRAW;			
5310	17	7:1	5	Y := Y4DRAW;			
5311	17	7:1	10	SHFTPOS(X, Y, RIGHSHFT, FRWDSHFT);			
5312	17	7:1	18	SQARTYPE := MAZE.SQREXTRA[X][Y];			
5313	17	7:1	32	IF MAZE.SQRETYPE[SQARTYPE] = DARK THEN			
5314	17	7:2	45	ISLIGHT := MAZE.AUX2[SQARTYPE] <> 0			
5315	17	7:1	53	ELSE			
5316	17	7:2	59	ISLIGHT := TRUE			
5317	17	7:0	59	END; (* ISLIGHT *)			
5318	17	7:0	74				
5319	17	7:0	74				
5320	17	8:D	3	FUNCTION FRWDVIEW(DELTAR : INTEGER) : TWALL; (* P010B08 *)			
5321	17	8:D	4				
5322	17	8:D	4	VAR			
5323	17	8:D	4	Y : INTEGER;			
5324	17	8:D	5	X : INTEGER;			
5325	17	8:D	6				
5326	17	8:0	0	BEGIN (* FRWDVIEW *)			
5327	17	8:1	0	X := X4DRAW;			
5328	17	8:1	5	Y := Y4DRAW;			
5329	17	8:1	10	SHFTPOS(X, Y, DELTAR, 0);			
5330	17	8:1	18	CASE DIRECTIO OF			
5331	17	8:1	21	NORTH: FRWDVIEW := MAZE.N[X][Y];			
5332	17	8:1	37	EAST: FRWDVIEW := MAZE.E[X][Y];			
5333	17	8:1	52	SOUTH: FRWDVIEW := MAZE.S[X][Y];			
5334	17	8:1	67	WEST: FRWDVIEW := MAZE.W[X][Y];			
5335	17	8:1	82	END;			
5336	17	8:0	98	END; (* FRWDVIEW *)			
5337	17	8:0	110				
5338	17	8:0	110				
5339	17	9:D	3	FUNCTION LEFTVIEW(DELTAR : INTEGER) : TWALL; (* P010B09 *)			
5340	17	9:D	4				
5341	17	9:D	4	VAR			
5342	17	9:D	4	Y : INTEGER;			
5343	17	9:D	5	X : INTEGER;			
5344	17	9:D	6				
5345	17	9:0	0	BEGIN (* LEFTVIEW *)			
5346	17	9:1	0	X := X4DRAW;			
5347	17	9:1	5	Y := Y4DRAW;			
5348	17	9:1	10	SHFTPOS(X, Y, DELTAR, 0);			
5349	17	9:1	18	CASE DIRECTIO OF			
5350	17	9:1	21	NORTH: LEFTVIEW := MAZE.W[X][Y];			

5351	17	9:1	36	EAST: LEFTVIEW := MAZE.N[X][Y];		
5352	17	9:1	52	SOUTH: LEFTVIEW := MAZE.E[X][Y];		
5353	17	9:1	67	WEST: LEFTVIEW := MAZE.S[X][Y];		
5354	17	9:1	82	END;		
5355	17	9:1	98			
5356	17	9:0	98	END; (* LEFTVIEW *)		
5357	17	9:0	110			
5358	17	9:0	110			
5359	17	10:D	3	FUNCTION RIGHVIEW(DELTAR : INTEGER) : TWALL; (* P010B0A *)		
5360	17	10:D	4			
5361	17	10:D	4	VAR		
5362	17	10:D	4	Y : INTEGER;		
5363	17	10:D	5	X : INTEGER;		
5364	17	10:D	6			
5365	17	10:0	0	BEGIN (* RIGHVIEW *)		
5366	17	10:1	0	X := X4DRAW;		
5367	17	10:1	5	Y := Y4DRAW;		
5368	17	10:1	10	SHFTPOS(X, Y, DELTAR, 0);		
5369	17	10:1	18	CASE DIRECTIO OF		
5370	17	10:1	21	NORTH: RIGHVIEW := MAZE.E[X][Y];		
5371	17	10:1	36	EAST: RIGHVIEW := MAZE.S[X][Y];		
5372	17	10:1	51	SOUTH: RIGHVIEW := MAZE.W[X][Y];		
5373	17	10:1	66	WEST: RIGHVIEW := MAZE.N[X][Y];		
5374	17	10:1	82	END;		
5375	17	10:0	98	END; (* RIGHVIEW *)		
5376	17	10:0	110			
5377	17	10:0	110			
5378	17	11:D	3	FUNCTION CHKHIDEN(WALL2CHK : TWALL) : TWALL; (* P010B0B *)		
5379	17	11:D	4			
5380	17	11:D	4			
5381	17	11:0	0	BEGIN (* CHKHIDEN *)		
5382	17	11:1	0	IF WALL2CHK = HIDE DOOR THEN		
5383	17	11:2	5	IF NOTDARK AND GOTLIGHT THEN		
5384	17	11:3	14	WALL2CHK := DOOR		
5385	17	11:2	14	ELSE		
5386	17	11:3	19	WALL2CHK := WALL;		
5387	17	11:1	22	CHKHIDEN := WALL2CHK		
5388	17	11:0	22	END; (* CHKHIDEN *)		
5389	17	11:0	38			
5390	17	11:0	38			
5391	17	12:D	1	PROCEDURE STEPFRWD; (* P010B0C *)		
5392	17	12:D	1			
5393	17	12:D	1	VAR		
5394	17	12:D	1	SQREDESC : INTEGER;		
5395	17	12:D	2			
5396	17	12:0	0	BEGIN (* STEPFRWD *)		
5397	17	12:1	0	SHFTPOS(X4DRAW, Y4DRAW, 0, 1);		
5398	17	12:1	10	NOTDARK := TRUE;		
5399	17	12:1	14	SQREDESC := MAZE.SQREXTRA[X4DRAW][Y4DRAW];		
5400	17	12:1	32	IF MAZE.SQRETYPE[SQREDESC] = DARK THEN		
5401	17	12:2	45	NOTDARK := MAZE.AUX0[SQREDESC] = 1		
5402	17	12:1	53	ELSE		
5403	17	12:2	60	IF MAZE.SQRETYPE[SQREDESC] = TRANSFER THEN		
5404	17	12:3	73	IF MAZE.AUX0[SQREDESC] = MAZELEV THEN		
5405	17	12:4	85	BEGIN		
5406	17	12:5	85	X4DRAW := MAZE.AUX2[SQREDESC];		
5407	17	12:5	96	Y4DRAW := MAZE.AUX1[SQREDESC]		

5408	17	12:4	103	END				
5409	17	12:0	107	END; (* STEPFRWD *)				
5410	17	12:0	120					
5411	17	12:0	120					
5412	17	13:D	1	PROCEDURE DRAWROW(MP18 : INTEGER; (* P010B0D *)				
5413	17	13:D	2	MP17 : INTEGER;				
5414	17	13:D	3	MP16 : INTEGER;				
5415	17	13:D	4	MP15 : INTEGER;				
5416	17	13:D	5	MP14 : INTEGER;				
5417	17	13:D	6	MP13 : INTEGER;				
5418	17	13:D	7	MP12 : INTEGER;				
5419	17	13:D	8	MP11 : INTEGER;				
5420	17	13:D	9	MP10 : INTEGER;				
5421	17	13:D	10	MP0F : INTEGER;				
5422	17	13:D	11	MP0E : INTEGER;				
5423	17	13:D	12	MP0D : INTEGER;				
5424	17	13:D	13	MP0C : INTEGER;				
5425	17	13:D	14	MP0B : INTEGER;				
5426	17	13:D	15	MP0A : INTEGER;				
5427	17	13:D	16	MP09 : INTEGER;				
5428	17	13:D	17	MP08 : INTEGER;				
5429	17	13:D	18	MP07 : INTEGER;				
5430	17	13:D	19	MP06 : INTEGER;				
5431	17	13:D	20	MP05 : INTEGER;				
5432	17	13:D	21	MP04 : INTEGER;				
5433	17	13:D	22	MP03 : INTEGER;				
5434	17	13:D	23	MP02 : INTEGER;				
5435	17	13:D	24	MP01 : INTEGER);				
5436	17	13:D	25					
5437	17	13:D	25					
5438	17	13:D	25	VAR				
5439	17	13:D	25	(* DRAWROW VARS: *)				
5440	17	13:D	25	WALLTHNG : TWALL;				
5441	17	13:D	26	MP1A : INTEGER;				
5442	17	13:D	27	MP1B : INTEGER;				
5443	17	13:D	28	BLCKFRWD : BOOLEAN;				
5444	17	13:D	29					
5445	17	13:D	29					
5446	17	14:D	1	PROCEDURE DRAWFLOR(POEMP04 : INTEGER; (* P010B0E *)				
5447	17	14:D	2	MP03 : INTEGER;				
5448	17	14:D	3	MP02 : INTEGER;				
5449	17	14:D	4	MP01 : INTEGER);				
5450	17	14:D	5					
5451	17	14:D	5	VAR				
5452	17	14:D	5	MZDIFF13 : INTEGER;				
5453	17	14:D	6	SQARDESC : INTEGER;				
5454	17	14:D	7	DFY : INTEGER;				
5455	17	14:D	8	DFX : INTEGER;				
5456	17	14:D	9					
5457	17	14:D	9					
5458	17	14:0	0	BEGIN (* DRAWFLOR *)				
5459	17	14:1	0	DFX := X4DRAW;				
5460	17	14:1	5	DFY := Y4DRAW;				
5461	17	14:1	10	SHFTPOS(DFX, DFY, MP02, 0);				
5462	17	14:1	18	SQARDESC := MAZE.SQREXTRA[DFX][DFY];				
5463	17	14:1	32	MZDIFF13 := MAZELEV;				
5464	17	14:1	35	IF MZDIFF13 > 12 THEN				

5465	17	14:2	40	MZDIFF13 := 13 - MZDIFF13;			
5466	17	14:2	45				
5467	17	14:1	45	CASE MAZE.SQRETYPE[SQARDESC] OF			
5468	17	14:1	56				
5469	17	14:1	56	STAIRS:			
5470	17	14:2	56	BEGIN			
5471	17	14:3	56	IF MZDIFF13 < MAZE.AUX0[SQARDESC] THEN			
5472	17	14:4	68	DRMZTHNG(MP03)			
5473	17	14:3	69	ELSE			
5474	17	14:4	73	DRMZTHNG(P0EMP04)			
5475	17	14:2	74	END;			
5476	17	14:2	78				
5477	17	14:1	78	BUTTONZ:			
5478	17	14:2	78	BEGIN			
5479	17	14:3	78	IF MZDIFF13 < MAZE.AUX1[SQARDESC] THEN			
5480	17	14:4	90	DRMZTHNG(MP03);			
5481	17	14:3	93	IF MZDIFF13 > MAZE.AUX2[SQARDESC] THEN			
5482	17	14:4	105	DRMZTHNG(P0EMP04);			
5483	17	14:2	108	END;			
5484	17	14:2	110				
5485	17	14:1	110	SCNMSG:			
5486	17	14:2	110	DRMZTHNG(MP03);			
5487	17	14:1	115	END;			
5488	17	14:1	144				
5489	17	14:1	144	IF ORACLEX = DFX THEN			
5490	17	14:2	152	IF ORACLEY = DFY THEN			
5491	17	14:3	160	BEGIN			
5492	17	14:4	160	BMVORACL := TRUE;			
5493	17	14:4	165	DRMZTHN2(MP04, MP01, 0) (* CAREFUL WITH MP04 ! *)			
5494	17	14:3	170	END			
5495	17	14:3	172				
5496	17	14:0	172	END; (* DRAWFLOR *)			
5497	17	14:0	184				
5498	17	14:0	184				
5499	17	15:D	1	PROCEDURE UNUSED; (* P010B0F *)			
5500	17	15:D	1				
5501	17	15:0	0	BEGIN (* UNUSED *)			
5502	17	15:1	0	DRAWFLOR(MPOB, MPOA, 0, 0)			
5503	17	15:0	8	END; (* UNUSED *)			
5504	17	15:0	22				
5505	17	15:0	22				
5506	17	15:0	22				
5507	17	13:0	0	BEGIN (* DRAWROW *)			
5508	17	13:1	0	MP1B := LEFTCOL;			
5509	17	13:1	5	MP1A := RIGHTCOL;			
5510	17	13:1	10	WALLTHNG := CHKHIDEN(FRWDVIEW(0));			
5511	17	13:1	21				(* CONVERT HIDE DOOR TO DOOR/WALL *)
5512	17	13:1	21	BLCKFRWD := TRUE;			
5513	17	13:1	24	IF WALLTHNG = WALL THEN			
5514	17	13:2	30	DRMZTHNG(MP14)			
5515	17	13:1	32	ELSE IF WALLTHNG = DOOR THEN			
5516	17	13:3	42	DRMZTHNG(MP13)			
5517	17	13:2	44	ELSE (* WALLTHNG = OPEN *)			
5518	17	13:3	48	IF ISLIGHT(0, 1) THEN			
5519	17	13:4	56	BLCKFRWD := FALSE			(* LIGHT STRAIGHT AHEAD *)
5520	17	13:3	56	ELSE			
5521	17	13:4	61	DRMZTHNG(MP0D);			

5522	17	13:1	64	DRAWFLOR(MPOB, MPOA, 0, 0);			
5523	17	13:1	70	WALLTHNG := CHKHIDEN(LEFTVIEW(0));			
5524	17	13:1	81	IF WALLTHNG = WALL THEN			
5525	17	13:2	87	BEGIN			
5526	17	13:3	87	DRMZTHNG(MP18);			
5527	17	13:3	91	MP1B := MP03			
5528	17	13:2	91	END			
5529	17	13:1	94	ELSE IF WALLTHNG = DOOR THEN			
5530	17	13:3	102	BEGIN			
5531	17	13:4	102	DRMZTHNG(MP17);			
5532	17	13:4	106	MP1B := MP03			
5533	17	13:3	106	END			
5534	17	13:2	109	ELSE			
5535	17	13:3	111	BEGIN			
5536	17	13:4	111	IF ISLIGHT(-1, 0) THEN			
5537	17	13:5	120	BEGIN (* LIGHT ON THE LEFT *)			
5538	17	13:6	120	WALLTHNG := CHKHIDEN(FRWDVIEW(-1));			
5539	17	13:6	132	IF WALLTHNG = WALL THEN			
5540	17	13:7	138	BEGIN			
5541	17	13:8	138	DRMZTHNG(MP12);			
5542	17	13:8	142	MP1B := MP03			
5543	17	13:7	142	END			
5544	17	13:6	145	ELSE IF WALLTHNG = DOOR THEN			
5545	17	13:8	153	BEGIN			
5546	17	13:9	153	DRMZTHNG(MP11);			
5547	17	13:9	157	MP1B := MP03			
5548	17	13:8	157	END			
5549	17	13:7	160	ELSE			
5550	17	13:8	162	BEGIN			
5551	17	13:9	162	IF NOT ISLIGHT(-1, 1) THEN			
5552	17	13:0	172	BEGIN (* DARKNESS AHEAD ON THE LEFT *)			
5553	17	13:1	172	DRMZTHN2(MPOD, -MP01, 0);			
5554	17	13:1	178	MP1B := MP03			
5555	17	13:0	178	END			
5556	17	13:8	181	END;			
5557	17	13:8	181				
5558	17	13:6	181	DRAWFLOR(MP09, MP07, -1, -MP01);			
5559	17	13:6	189				
5560	17	13:5	189	END			
5561	17	13:4	189	ELSE			
5562	17	13:5	191	BEGIN			
5563	17	13:6	191	DRMZTHNG(MPOE);			
5564	17	13:6	194	MP1B := MP03			
5565	17	13:5	194	END			
5566	17	13:3	197	END;			
5567	17	13:3	197				
5568	17	13:1	197	WALLTHNG := CHKHIDEN(RIGHVIEW(0));			
5569	17	13:1	208	IF WALLTHNG = WALL THEN			
5570	17	13:2	214	BEGIN			
5571	17	13:3	214	DRMZTHNG(MP16);			
5572	17	13:3	218	MP1A := MP02			
5573	17	13:2	218	END			
5574	17	13:1	221	ELSE IF WALLTHNG = DOOR THEN			
5575	17	13:3	229	BEGIN			
5576	17	13:4	229	DRMZTHNG(MP15);			
5577	17	13:4	233	MP1A := MP02			
5578	17	13:3	233	END			

5579	17	13:2	236	ELSE				
5580	17	13:3	238	BEGIN				
5581	17	13:4	238	IF ISLIGHT(1, 0) THEN				
5582	17	13:5	246	BEGIN	(* LIGHT ON THE RIGHT *)			
5583	17	13:6	246	WALLTHNG := CHKHIDEN(FRWDVIEW(1));				
5584	17	13:6	257	IF WALLTHNG = WALL THEN				
5585	17	13:7	263	BEGIN				
5586	17	13:8	263	DRMZTHNG(MP10);				
5587	17	13:8	266	MP1A := MP02				
5588	17	13:7	266	END				
5589	17	13:6	269	ELSE IF WALLTHNG = DOOR THEN				
5590	17	13:8	277	BEGIN				
5591	17	13:9	277	DRMZTHNG(MP0F);				
5592	17	13:9	280	MP1A := MP02				
5593	17	13:8	280	END				
5594	17	13:7	283	ELSE				
5595	17	13:8	285	BEGIN				
5596	17	13:9	285	IF NOT ISLIGHT(1, 1) THEN				
5597	17	13:0	294	BEGIN	(* DARKNESS AHEAD ON THE RIGHT *)			
5598	17	13:1	294	DRMZTHN2(MP0D, MP01, 0);				
5599	17	13:1	299	MP1A := MP02				
5600	17	13:0	299	END				
5601	17	13:8	302	END;				
5602	17	13:8	302					
5603	17	13:6	302	DRAWFLOR(MP08, MP06, 1, MP01)				
5604	17	13:5	306	END				
5605	17	13:4	308	ELSE				
5606	17	13:5	310	BEGIN				
5607	17	13:6	310	DRMZTHNG(MP0C);				
5608	17	13:6	313	MP1A := MP02				
5609	17	13:5	313	END;				
5610	17	13:3	316	END;				
5611	17	13:3	316					
5612	17	13:1	316	IF BLCKFRWD THEN				
5613	17	13:2	320	EXITDRMZ;				
5614	17	13:1	322	LEFTCOL := MP1B;				
5615	17	13:1	327	RIGHTCOL := MP1A				
5616	17	13:1	327					
5617	17	13:0	327	END; (* DRAWROW *)				
5618	17	13:0	344					
5619	17	13:0	344					
5620	17	2:0	0	BEGIN (* DRAWMAZE *)				
5621	17	2:1	0	FILLCHAR(P02MP08, 14, CHR(0));				
5622	17	2:1	7	P02MPOF := P02MP08;				
5623	17	2:1	13	BMVORACL := FALSE;				
5624	17	2:1	18	X4DRAW := MAZEX;				
5625	17	2:1	21	Y4DRAW := MAZEY;				
5626	17	2:1	24	IF IDMONSTR > 0 THEN				
5627	17	2:2	30	IDMONSTR := IDMONSTR - 1;				
5628	17	2:1	36	IF LIGHT > 0 THEN				
5629	17	2:2	42	LIGHT := LIGHT - 1;				
5630	17	2:1	48	GOTLIGHT := LIGHT > 0;				
5631	17	2:1	54	UNUSED := 1;				
5632	17	2:1	57	FILLCHAR(MAINWIN^.DATA, 36 * 40, ' ');				
5633	17	2:1	68	LEFTCOL := 0;				
5634	17	2:1	71	RIGHTCOL := 35;				
5635	17	2:1	74	IF NOT ISLIGHT(0, 0) THEN				

5636	17	2:2	83	BEGIN	(* DARKNESS AT CURRENT LOCATION *)
5637	17	2:3	83	DRMZTHNG(61);	
5638	17	2:3	86	EXITDRMZ	
5639	17	2:2	86	END;	
5640	17	2:1	88	SHFTPOS(X4DRAW, Y4DRAW, 0, -1);	
5641	17	2:1	97	STEPFRWD;	
5642	17	2:1	99	DRAWROW(6, 14, 7, 15, 18, 21, 26, 32, 27, 33, 40, 44, 41, 45, 48, 49,	
5643	17	2:1	115	53, 52, 56, 58, 60, 11, 24, 14);	
5644	17	2:1	125	STEPFRWD;	
5645	17	2:1	127	DRAWROW(4, 12, 5, 13, 17, 20, 24, 30, 25, 31, 38, 43, 39, 46, 47, 50,	
5646	17	2:1	143	54, 51, 55, 57, 59, 15, 20, 6);	
5647	17	2:1	153	IF GOTLIGHT THEN	
5648	17	2:2	156	BEGIN	
5649	17	2:3	156	STEPFRWD;	
5650	17	2:3	158	DRAWROW(2, 10, 3, 11, 16, 19, 22, 28, 23, 29, 36, 42, 37, -1, -1,	
5651	17	2:3	175	-1, -1, -1, -1, -1, -1, 17, 18, 2);	
5652	17	2:3	192	STEPFRWD;	
5653	17	2:3	194	DRAWROW(0, 8, 1, 9, -1, -1, -1, -1, -1, -1, 34, -1, 35, -1, -1,	
5654	17	2:3	218	-1, -1, -1, -1, -1, -1, 17, 18, 2)	
5655	17	2:2	233	END;	
5656	17	2:2	235		
5657	17	2:1	235	EXITDRMZ	
5658	17	2:1	235		
5659	17	2:0	235	END; (* DRAWMAZE *)	
5660	17	2:0	250		
5661	17	2:0	250		
5662	17	16:D	1	PROCEDURE READMAZ(LEVEL : INTEGER); (* P010B10 *)	
5663	17	16:D	2		
5664	17	16:0	0	BEGIN (* READMAZ *)	
5665	17	16:1	0	MOVELEFT(BASE55B[GETREC(1, (LEVEL - 1), SIZEOF(MAZE))],	
5666	17	16:1	15	MAZE,	
5667	17	16:1	19	SIZEOF(MAZE))	
5668	17	16:0	24	END; (* READMAZ *)	
5669	17	16:0	36		
5670	17	16:0	36		
5671	17	17:D	1	PROCEDURE WRITEMAZ(LEVEL : INTEGER); (* P010B11 *)	
5672	17	17:D	2		
5673	17	17:0	0	BEGIN (* WRITEMAZ *)	
5674	17	17:1	0	MOVELEFT(MAZE,	
5675	17	17:1	4	BASE55B[GETREWC(1, LEVEL - 1, SIZEOF(MAZE))],	
5676	17	17:1	19	SIZEOF(MAZE))	
5677	17	17:0	24	END; (* WRITEMAZ *)	
5678	17	17:0	36		
5679	17	17:0	36		
5680	17	18:D	1	PROCEDURE CHKWRITMZ(WRITFLAG : BOOLEAN); (* P010B12 *)	
5681	17	18:D	2		
5682	17	18:0	0	BEGIN (* CHKWRITMZ *)	
5683	17	18:1	0	IF WRITFLAG OR (MZLVORIG = 12) OR (MZLVORIG = 5) THEN	
5684	17	18:2	17	WRITEMAZ(MZLVORIG)	
5685	17	18:0	21	END; (* CHKWRITMZ *)	
5686	17	18:0	36		
5687	17	18:0	36		
5688	17	19:D	1	PROCEDURE SPINBLCK(P13MP02 : INTEGER; (* P010B13 *)	
5689	17	19:D	2	P13MP01 : INTEGER);	
5690	17	19:D	3		
5691	17	20:D	1	PROCEDURE ROTATE1; (* P010B14 *)	
5692	17	20:D	1		

5693	17	20:D	1	VAR				
5694	17	20:D	1	MP01 : TWALL;				
5695	17	20:D	2	MP02 : TWALL;				
5696	17	20:D	3	MP03 : TWALL;				
5697	17	20:D	4	MP04 : TWALL;				
5698	17	20:D	5	MP05 : TWALL;				
5699	17	20:D	6	MP06 : TWALL;				
5700	17	20:D	7	MP07 : TWALL;				
5701	17	20:D	8	MP08 : TWALL;				
5702	17	20:D	9					
5703	17	20:D	9					
5704	17	21:D	3	FUNCTION NEXTLOC(MP03 : INTEGER) : INTEGER; (* P010B15 *)				
5705	17	21:D	4					
5706	17	21:0	0	BEGIN (* NEXTLOC *)				
5707	17	21:1	0	NEXTLOC := (MP03 + 20) MOD 20				
5708	17	21:0	3	END; (* NEXTLOC *)				
5709	17	21:0	20					
5710	17	21:0	20					
5711	17	20:0	0	BEGIN (* ROTATE1 *)				
5712	17	20:1	0	MP07 := MAZE.N[P13MP02] [P13MP01];				
5713	17	20:1	18	MP03 := MAZE.S[P13MP02] [NEXTLOC(P13MP01 + 1)];				
5714	17	20:1	41	MP06 := MAZE.E[P13MP02] [P13MP01];				
5715	17	20:1	58	MP02 := MAZE.W[NEXTLOC(P13MP02 + 1)] [P13MP01];				
5716	17	20:1	81	MP08 := MAZE.S[P13MP02] [P13MP01];				
5717	17	20:1	98	MP04 := MAZE.N[P13MP02] [NEXTLOC(P13MP01 - 1)];				
5718	17	20:1	122	MP05 := MAZE.W[P13MP02] [P13MP01];				
5719	17	20:1	139	MP01 := MAZE.E[NEXTLOC(P13MP02 - 1)] [P13MP01];				
5720	17	20:1	162					
5721	17	20:1	162	MAZE.N[P13MP02] [P13MP01] := MP05;				
5722	17	20:1	179	MAZE.S[P13MP02] [NEXTLOC(P13MP01 + 1)] := MP01;				
5723	17	20:1	201	MAZE.E[P13MP02] [P13MP01] := MP07;				
5724	17	20:1	217	MAZE.W[NEXTLOC(P13MP02 + 1)] [P13MP01] := MP03;				
5725	17	20:1	239	MAZE.S[P13MP02] [P13MP01] := MP06;				
5726	17	20:1	255	MAZE.N[P13MP02] [NEXTLOC(P13MP01 - 1)] := MP02;				
5727	17	20:1	278	MAZE.W[P13MP02] [P13MP01] := MP08;				
5728	17	20:1	294	MAZE.E[NEXTLOC(P13MP02 - 1)] [P13MP01] := MP04				
5729	17	20:1	314					
5730	17	20:0	314	END; (* ROTATE1 *)				
5731	17	20:0	328					
5732	17	20:0	328					
5733	17	20:0	328					
5734	17	20:0	328					
5735	17	19:0	0	BEGIN (* SPINBLCK *)				
5736	17	19:1	0	IF NOT BSPIN THEN				
5737	17	19:2	6	EXIT(SPINBLCK);				
5738	17	19:1	10	BSPIN := FALSE;				
5739	17	19:1	14	IF SPINCNT = 4 THEN				
5740	17	19:2	22	SPINCNT := 1 + (RAND MOD 3);				
5741	17	19:1	35	WHILE SPINCNT > 0 DO				
5742	17	19:2	43	BEGIN				
5743	17	19:3	43	ROTATE1;				
5744	17	19:3	45	SPINCNT := SPINCNT - 1				
5745	17	19:2	49	END				
5746	17	19:0	55	END; (* SPINBLCK *)				
5747	17	19:0	72					
5748	17	19:0	72					
5749	17	22:D	1	PROCEDURE SPECMSG(MP01 : INTEGER); (* P010B16 *)				

5750	17	22:D	2					
5751	17	22:D	2	VAR				
5752	17	22:D	2	MP02 : TWINDOWP;				
5753	17	22:D	3	MP03 : INTEGER;				
5754	17	22:D	4					
5755	17	22:0	0	BEGIN (* SPECMSG *)				
5756	17	22:1	0	GETMSGTX(BASE47, MP01);				
5757	17	22:1	6	MP03 := (MBSTRLEN(BASE47) + 1) DIV 2;				
5758	17	22:1	19	MP02 := GETWIN(19 - MP03, 10, 2 + MP03 + MP03, 3, 15, TRUE);				
5759	17	22:1	38	PRPICMB(MP02, BASE47);				
5760	17	22:1	44	DELWIN(MP02, FALSE);				
5761	17	22:1	50	NEEDDRAW := TRUE				
5762	17	22:0	50	END; (* SPECMSG *)				
5763	17	22:0	66					
5764	17	22:0	66					
5765	17	23:D	1	PROCEDURE DRAWSCRN(MP01 : BOOLEAN); (* P010B17 *)				
5766	17	23:D	2					
5767	17	23:0	0	BEGIN (* DRAWSCRN *)				
5768	17	23:1	0	DELWIN(CSIOWIN, FALSE);				
5769	17	23:1	7	DELWIN(LPIWIN, FALSE);				
5770	17	23:1	14	IF MP01 THEN				
5771	17	23:2	17	UNPROWIN(CHARSWIN, FALSE);				
5772	17	23:1	22	DRAWSCR2(WINCHAIN);				
5773	17	23:1	26	CHKWRTMZ(FALSE)				
5774	17	23:0	27	END; (* DRAWSCRN *)				
5775	17	23:0	42					
5776	17	23:0	42					
5777	17	24:D	1	PROCEDURE MVTREBOR; (* P010B18 *)				
5778	17	24:D	1					
5779	17	24:D	1	VAR				
5780	17	24:D	1	STEPAWAY : INTEGER;				
5781	17	24:D	2	TREBWIN : TWINDOWP;				
5782	17	24:D	3					
5783	17	24:0	0	BEGIN (* MVTREBOR *)				
5784	17	24:1	0	IF BASE7F4[5-1] <> 0 THEN				
5785	17	24:2	13	EXIT(MVTREBOR);				
5786	17	24:1	17	BMVTREB := FALSE;				
5787	17	24:1	22	IF (RAND MOD 2) = 0 THEN				
5788	17	24:2	33	IF TREBORX > MAZEX THEN				
5789	17	24:3	40	TREBORX := TREBORX - 1				
5790	17	24:2	43	ELSE				
5791	17	24:3	50	TREBORX := TREBORX + 1 (* SEEMS WIERD FOR '=' TO MOVE AWAY *)				
5792	17	24:1	53	ELSE				
5793	17	24:2	60	IF TREBORY > MAZEY THEN				
5794	17	24:3	67	TREBORY := TREBORY - 1				
5795	17	24:2	70	ELSE				
5796	17	24:3	77	TREBORY := TREBORY + 1; (* SEEMS WIERD FOR '=' TO MOVE AWAY *)				
5797	17	24:1	85	STEPAWAY := ABS(MAZEX - TREBORX) + ABS(MAZEY - TREBORY);				
5798	17	24:1	100	IF STEPAWAY <= (CHGMSGP2 DIV 2) THEN				
5799	17	24:2	109	BEGIN				
5800	17	24:3	109	CHGMSGP2 := CHGMSGP2 DIV 2;				
5801	17	24:3	117	TREBMSG := TREBMSG + 1; (* W..E..R..D..N..A.., ETC. *)				
5802	17	24:3	125	SPECMSG(TREBMSG);				
5803	17	24:3	130	PAUSE2				
5804	17	24:2	130	END				
5805	17	24:1	133	ELSE				
5806	17	24:2	135	BEGIN				

5807	17	24:3	135	IF (RAND MOD 10) = 5 THEN			
5808	17	24:4	146	BEGIN			
5809	17	24:5	146	SPECMMSG(TREBMSG);			
5810	17	24:5	151	PAUSE2			
5811	17	24:4	151	END			
5812	17	24:2	154	END;			
5813	17	24:2	154				
5814	17	24:1	154	IF STEPAWAY = 0 THEN			
5815	17	24:2	159	BEGIN			
5816	17	24:3	159	PAUSE2;			
5817	17	24:3	162	TREBWIN := GETWIN(0, 9, 40, 5, 16, TRUE);			
5818	17	24:3	175				
5819	17	24:3	175	FOR STEPAWAY := 2506 TO 2508 DO			
5820	17	24:4	190	DISP1LIN(TREBWIN, STEPAWAY);			
5821	17	24:4	202				
5822	17	24:4	202	(* THE GHOST OF TREBOR APPEARS *)			
5823	17	24:4	202	(* THROUGH THE WALL. HIS TOUCH *)			
5824	17	24:4	202	(* IS CHILLING UNTO DEATH! *)			
5825	17	24:4	202				
5826	17	24:3	202	CHARACTR[6].STATUS := DEAD;			
5827	17	24:3	212	BASE13 := 14;			
5828	17	24:3	215	FOR STEPAWAY := 0 TO 2 DO			
5829	17	24:4	226	PAUSE2;			
5830	17	24:3	236	DELWIN(TREBWIN, FALSE);			
5831	17	24:3	242	DRAWSCRN(FALSE);			
5832	17	24:3	245	EXIT(RUNNER)			
5833	17	24:2	249	END			
5834	17	24:2	249				
5835	17	24:0	249	END; (* MVTREBOR *)			
5836	17	24:0	266				
5837	17	24:0	266				
5838	17	25:D	1	PROCEDURE GETCMD; (* P010B19 *)			
5839	17	25:D	1				
5840	17	25:D	1	VAR			
5841	17	25:D	1	MP01 : INTEGER;			
5842	17	25:D	2	MP02 : INTEGER;			
5843	17	25:D	3				
5844	17	25:0	0	BEGIN (* GETCMD *)			
5845	17	25:1	0	MP01 := 0;			
5846	17	25:1	3	REPEAT			
5847	17	25:2	3	MP02 := 1;			
5848	17	25:2	6	UNITWRITE(BASE12, MP02, 19, MP02); (* TIMED WAIT LOOP FOR KEYPRESS *)			
5849	17	25:2	16	IF NOT KEYPRESS THEN			
5850	17	25:3	24	BEGIN			
5851	17	25:4	24	MP01 := MP01 + 1;			
5852	17	25:4	29	IF MP01 = 90 THEN			
5853	17	25:5	34	BEGIN			
5854	17	25:6	34	MVTREBOR;			
5855	17	25:6	36	MP01 := 0			
5856	17	25:5	36	END			
5857	17	25:3	39	END			
5858	17	25:1	39	UNTIL KEYPRESS;			
5859	17	25:1	46	IF (RAND MOD 10) = 5 THEN			
5860	17	25:2	57	BMVTREB := TRUE;			
5861	17	25:1	62	GETKEY;			
5862	17	25:1	65	FOR MP02 := 1 TO LENGTH(CHOICES) DO			
5863	17	25:2	81	IF CHOICES[MP02] = INCHAR THEN			

5864	17	25:3	91	BEGIN				
5865	17	25:4	91	COMMAND := MP02;				
5866	17	25:4	96	EXIT(GETCMD)				
5867	17	25:3	100	END;				
5868	17	25:1	107	COMMAND := -1				
5869	17	25:0	107	END; (* GETCMD *)				
5870	17	25:0	130					
5871	17	25:0	130	(*I WIZ4B:RUNNER *)				
5871	17	25:0	130	(*I WIZ4B:RUNNER2 *)				
5872	17	25:0	130					
5873	17	25:0	130	(* RUNNER2 *)				
5874	17	25:0	130					
5875	17	26:D	1	PROCEDURE CLROOMFG(POSX : INTEGER; (* P010B1A *)				
5876	17	26:D	2	POSY : INTEGER);				
5877	17	26:D	3					
5878	17	26:D	3	VAR				
5879	17	26:D	3	MP03 : INTEGER;				
5880	17	26:D	4	YLOOP : INTEGER;				
5881	17	26:D	5	MP05 : INTEGER;				
5882	17	26:D	6	XLOOP : INTEGER;				
5883	17	26:D	7	DONECHK : BOOLEAN;				
5884	17	26:D	8					
5885	17	26:D	8	FIGHTCHK : PACKED ARRAY[0..19] OF PACKED ARRAY[0..19] OF BOOLEAN;				
5886	17	26:D	48					
5887	17	26:D	48					
5888	17	27:D	1	PROCEDURE CHK4FIGH(NEWX: INTEGER; (* P010B1B *)				
5889	17	27:D	2	NEWY: INTEGER;				
5890	17	27:D	3	WALL2NEW: TWALL);				
5891	17	27:D	4					
5892	17	27:D	4	VAR				
5893	17	27:D	4	MP04 : 0..15;				
5894	17	27:D	5					
5895	17	27:D	5					
5896	17	27:0	0	BEGIN (* P010B1B *)				
5897	17	27:1	0	IF WALL2NEW <> OPEN THEN				
5898	17	27:2	5	EXIT(CHK4FIGH);				
5899	17	27:1	9	NEWX := (NEWX + 20) MOD 20;				
5900	17	27:1	16	NEWY := (NEWY + 20) MOD 20;				
5901	17	27:1	23	MP04 := MAZE.SQREXTRA[NEWX][NEWY];				
5902	17	27:1	37	IF (FIGHTCHK[NEWX][NEWY]) OR				
5903	17	27:1	48	(MAZE.SQRETYPE[MP04] = ENCOUNTE) THEN				
5904	17	27:2	62	EXIT(CHK4FIGH);				
5905	17	27:2	66					
5906	17	27:1	66	IF (MAZE.SQRETYPE[MP04] = SCNMSG) AND				
5907	17	27:1	77	(MAZE.AUX2[MP04] = 600) THEN				
5908	17	27:2	92	EXIT(CHK4FIGH);				
5909	17	27:2	96					
5910	17	27:1	96	DONECHK := FALSE;				
5911	17	27:1	100	FIGHTCHK[NEWX][NEWY] := TRUE				
5912	17	27:1	110					
5913	17	27:0	110	END; (* P010B1B *)				
5914	17	27:0	124					
5915	17	27:0	124					
5916	17	26:0	0	BEGIN (* CLROOMFG *)				
5917	17	26:1	0	MVCURSOR(MAINWIN, 0, 6);				
5918	17	26:1	7	FILLCHAR(FIGHTCHK, SIZEOF(FIGHTCHK), CHR(0));				
5919	17	26:1	14	CHK4FIGH(POSX, POSY, OPEN);				

5920	17	26:1	19					
5921	17	26:1	19	REPEAT				
5922	17	26:2	19	DONECHK := TRUE;				
5923	17	26:2	22	FOR MP05 := POSX - 4 TO POSX + 4 DO				
5924	17	26:3	38	FOR MP03 := POSY - 4 TO POSY + 4 DO				
5925	17	26:4	54	BEGIN				
5926	17	26:5	54	XLOOP := (MP05 + 20) MOD 20;				
5927	17	26:5	61	YLOOP := (MP03 + 20) MOD 20;				
5928	17	26:5	68	IF FIGHTCHK[XLOOP][YLOOP] AND FIGHTMAP[XLOOP][YLOOP] THEN				
5929	17	26:6	92	BEGIN				
5930	17	26:7	92	CHK4FIGH(XLOOP + 1, YLOOP, MAZE.E[XLOOP][YLOOP]);				
5931	17	26:7	109	CHK4FIGH(XLOOP - 1, YLOOP, MAZE.W[XLOOP][YLOOP]);				
5932	17	26:7	126	CHK4FIGH(XLOOP, YLOOP - 1, MAZE.S[XLOOP][YLOOP]);				
5933	17	26:7	143	CHK4FIGH(XLOOP, YLOOP + 1, MAZE.N[XLOOP][YLOOP]);				
5934	17	26:7	161	FIGHTMAP[XLOOP][YLOOP] := FALSE				
5935	17	26:6	171	END;				
5936	17	26:4	173	END				
5937	17	26:1	173	UNTIL DONECHK				
5938	17	26:1	187					
5939	17	26:0	187	END; (* CLROOMFG *)				
5940	17	26:0	210					
5941	17	26:0	210					
5942	17	28:D	1	PROCEDURE DSPPARTY; (* P010B1C *)				
5943	17	28:D	1					
5944	17	28:D	1	VAR				
5945	17	28:D	1	MP01 : INTEGER;				
5946	17	28:D	2	HEALDIFF : INTEGER;				
5947	17	28:D	3	MP03 : INTEGER;				
5948	17	28:D	4	MP04 : INTEGER;				
5949	17	28:D	5	MP05 : ARRAY[0..103] OF INTEGER;				
5950	17	28:D	109					
5951	17	28:D	109	MP6D : BOOLEAN;				
5952	17	28:D	110					
5953	17	28:D	110					
5954	17	29:D	1	PROCEDURE DSSTATUS; (* P010B1D *)				
5955	17	29:D	1					
5956	17	29:0	0	BEGIN (* DSSTATUS *)				
5957	17	29:1	0	WITH CHARACTER[6] DO				
5958	17	29:2	8	BEGIN				
5959	17	29:3	8	HEALDIFF := HEALPTS - LOSTXYL.POISNAMT[1];				
5960	17	29:3	24	IF HEALDIFF = 0 THEN				
5961	17	29:4	31	PRPICCH(CHARSWIN, ' ')				
5962	17	29:3	33	ELSE IF HEALDIFF < 0 THEN				
5963	17	29:5	45	PRPICCH(CHARSWIN, '-')				
5964	17	29:4	47	ELSE				
5965	17	29:5	52	PRPICCH(CHARSWIN, '+');				
5966	17	29:5	57					
5967	17	29:3	57	MP6D := MP6D OR (STATUS <= ASLEEP);				
5968	17	29:3	69					
5969	17	29:3	69	IF STATUS = OK THEN				
5970	17	29:4	76	IF LOSTXYL.POISNAMT[1] = 0 THEN				
5971	17	29:5	89	PRINTNUM(CHARSWIN, HPMAX, 4)				
5972	17	29:4	94	ELSE				
5973	17	29:5	99	DISP1MSG(CHARSWIN, 700) (* POISON *)				
5974	17	29:3	103	ELSE				
5975	17	29:4	108	BEGIN				
5976	17	29:5	108	GETMSGTX(BASE47, 10040 + ORD(STATUS)); (* OK, AFRAID, ... *)				

5977	17	29:5	120	COPYSTR(BASE47, BASE47, 1, 6);		
5978	17	29:5	129	PRPICMB(CHARSWIN, BASE47)		
5979	17	29:4	132	END		
5980	17	29:2	135	END		
5981	17	29:0	135	END; (* DSSTATUS *)		
5982	17	29:0	148			
5983	17	29:0	148			
5984	17	28:0	0	BEGIN (* DSPPARTY *)		
5985	17	28:1	0	MP6D := FALSE;		
5986	17	28:1	3	PROTWIN(CHARSWIN, FALSE);		
5987	17	28:1	8	MVCURSOR(CHARSWIN, 0, 0);		
5988	17	28:1	14	DISP1MSG(CHARSWIN, 402); (* # CHARACTER NAME CLASS AC HITS STATUS *)		
5989	17	28:1	21	FILLCHAR(CHARSWIN^.DATA[76], 38 * 12, ' ');		
5990	17	28:1	31	MVCURSOR(CHARSWIN, 0, 1);		
5991	17	28:1	37	PRINTNUM(CHARSWIN, 1, 1);		
5992	17	28:1	43	CHARSWIN^.HEAD.HCURSOR := 2;		
5993	17	28:1	50	PRPICMB(CHARSWIN, CHARACTER[6].NAME);		
5994	17	28:1	60	CHARSWIN^.HEAD.HCURSOR := 18;		
5995	17	28:1	67	GETMSGTX(BASE47, 10009 + ORD(CHARACTER[6].ALIGN));		
5996	17	28:1	84	COPYSTR(BASE47, BASE47, 1, 1);		
5997	17	28:1	93	PRPICMB(CHARSWIN, BASE47);		
5998	17	28:1	99	PRPICCH(CHARSWIN, '-');		
5999	17	28:1	104	GETMSGTX(BASE47, 10030 + ORD(CHARACTER[6].CLASS));		
6000	17	28:1	121	COPYSTR(BASE47, BASE47, 1, 3);		
6001	17	28:1	130	PRPICMB(CHARSWIN, BASE47);		
6002	17	28:1	136	PRPICCH(CHARSWIN, ' ');		
6003	17	28:1	141	BASE09 := CHARACTER[6].ARMORCL - ACMOD2;		
6004	17	28:1	154	IF BASE09 > -10 THEN		
6005	17	28:2	160	PRINTNUM(CHARSWIN, BASE09, 2)		
6006	17	28:1	163	ELSE		
6007	17	28:2	168	DISP1MSG(CHARSWIN, 701); (* "LO" *)		
6008	17	28:1	175	PRINTNUM(CHARSWIN, CHARACTER[6].HPLEFT, 5);		
6009	17	28:1	188			
6010	17	28:1	188	DSSTATUS;		
6011	17	28:1	190			
6012	17	28:1	190	MVCURSOR(CHARSWIN, 0, 3);		
6013	17	28:1	196	FOR MP04 := 0 TO 2 DO		
6014	17	28:2	208	BEGIN		
6015	17	28:3	208	IF BASE3F[MP04] <> 0 THEN		
6016	17	28:4	218	BEGIN		
6017	17	28:5	218	PRPICCH(CHARSWIN, CHR(ORD('A') + MP04));		
6018	17	28:5	225	PRPICCH(CHARSWIN, ' ');		
6019	17	28:5	230	PRPICMB(CHARSWIN, BASE147[MP04]);		
6020	17	28:5	240	CHARSWIN^.HEAD.HCURSOR := 18;		
6021	17	28:5	247	PRPICCH(CHARSWIN, '(');		
6022	17	28:5	252	PRINTNUM(CHARSWIN, BASE3F[MP04], 1);		
6023	17	28:5	263	PRPICCH(CHARSWIN, '');		
6024	17	28:4	268	END;		
6025	17	28:3	268	PRINTCR(CHARSWIN)		
6026	17	28:2	269	END;		
6027	17	28:2	279			
6028	17	28:1	279	UNPROWIN(CHARSWIN, TRUE);		
6029	17	28:1	284			
6030	17	28:1	284	IF NOT MP6D THEN		
6031	17	28:2	289	BEGIN		
6032	17	28:2	289			
6033	17	28:2	289	(* STATUS WORSE THAN 'ASLEEP' *)		

6034	17	28:2	289					
6035	17	28:3	289	BASE13 := 14;				
6036	17	28:3	292	DRAWSCRN(FALSE);				
6037	17	28:3	295	EXIT(RUNNER)				
6038	17	28:2	299	END				
6039	17	28:2	299					
6040	17	28:0	299	END; (* DSPPARTY *)				
6041	17	28:0	314					
6042	17	28:0	314					
6043	17	30:D	1	PROCEDURE UPDATEHP; (* P010B1E *)				
6044	17	30:D	1					
6045	17	30:D	1	VAR				
6046	17	30:D	1	UNUSED1 : INTEGER;				
6047	17	30:D	2	UNUSED2 : INTEGER;				
6048	17	30:D	3					
6049	17	30:0	0	BEGIN (* UPDATEHP *)				
6050	17	30:1	0	IF (RAND MOD 8) = 1 THEN				
6051	17	30:2	11	BEGIN				
6052	17	30:3	11	WITH CHARACTER[6] DO				
6053	17	30:4	19	BEGIN				
6054	17	30:5	19	IF LOSTXYL.POISNAMT[1] > 0 THEN				
6055	17	30:6	32	IF HPLEFT > 50 THEN				
6056	17	30:7	39	HPLEFT := HPLEFT -(HPLEFT DIV 10)				
6057	17	30:6	50	ELSE				
6058	17	30:7	54	HPLEFT := HPLEFT - LOSTXYL.POISNAMT[1];				
6059	17	30:5	71	HPLEFT := HPLEFT + HEALPTS;				
6060	17	30:5	82	IF HPLEFT <= 0 THEN				
6061	17	30:6	89	BEGIN				
6062	17	30:7	89	LOSTXYL.POISNAMT[1] := 0;				
6063	17	30:7	99	IF STATUS < DEAD THEN				
6064	17	30:8	106	BEGIN				
6065	17	30:9	106	HPLEFT := 0;				
6066	17	30:9	111	STATUS := DEAD;				
6067	17	30:9	116	DSPPARTY;				
6068	17	30:9	118	GETMSGTX(BASE47, 727); (* ^ HAS DIED! *)				
6069	17	30:9	126	INSERTST(CHARACTER[6].NAME, BASE47);				
6070	17	30:9	137	SPECMMSG(-1); (* NOT SURE WHAT -1 DOES. MSG # (?) *)				
6071	17	30:9	141	PAUSE2				
6072	17	30:8	141	END				
6073	17	30:6	144	END				
6074	17	30:5	144	ELSE				
6075	17	30:6	146	IF HPLEFT > HPMAX THEN				
6076	17	30:7	155	HPLEFT := HPMAX				
6077	17	30:7	158					
6078	17	30:4	158	END;				
6079	17	30:2	162	END;				
6080	17	30:2	162					
6081	17	30:0	162	END; (* UPDATEHP *)				
6082	17	30:0	176					
6083	17	30:0	176					
6084	17	31:D	1	PROCEDURE ENCOUNTR; (* P010B1F *)				
6085	17	31:D	1					
6086	17	31:D	1	VAR				
6087	17	31:D	1	ENCTYPE : INTEGER;				
6088	17	31:D	2	ENEMYI : INTEGER;				
6089	17	31:D	3	ENCCALC : INTEGER;				
6090	17	31:D	4					

6091	17	31:D	4					
6092	17	32:D	1	PROCEDURE	P010B20;			
6093	17	32:D	1					
6094	17	32:0	0	BEGIN	(* P010B20 *)			
6095	17	32:1	0	ENCTYPE	:= ATTK012 + 1;			
6096	17	32:1	7	BASE09	:= 4;			
6097	17	32:1	10					
6098	17	32:1	10	REPEAT				
6099	17	32:2	10	WITH MAZE.ENMYCALC[ENCTYPE] DO				
6100	17	32:3	23	BEGIN				
6101	17	32:4	23	ENCCALC	:= 0;			
6102	17	32:4	27	WHILE ((RAND MOD 100) < PERCWORS) AND (ENCCALC < WORSE01) DO				
6103	17	32:5	46	ENCCALC	:= ENCCALC + 1;			
6104	17	32:4	56	ENEMYI	:= MINENEMY + (RAND MOD RANGE0N) + (MULTWORS * ENCCALC);			
6105	17	32:4	77	BASE27	:= ENEMYI;			
6106	17	32:4	82	BASE09	:= BASE09 - 1			
6107	17	32:3	83	END;				
6108	17	32:1	87	UNTIL (BASE09 <= 0) OR (NOT BASE87B[BASE27]);				
6109	17	32:1	103					
6110	17	32:1	103	IF BASE87B[BASE27] THEN				
6111	17	32:2	114	EXIT(P010B20);				
6112	17	32:1	118	UNITCLEAR(2); (* SYSTEM *)				
6113	17	32:1	121	SPECMMSG(702); (* AN ENCOUNTER *)				
6114	17	32:1	126	PAUSE2;				
6115	17	32:1	129	MOVELEFT(MAZE.ENMYCALC, BASE75B, 3 * 10); (* SIZEOF(ENMYCALC) *)				
6116	17	32:1	143	BASE13	:= 6;			
6117	17	32:1	146	DRAWSCRN(FALSE);				
6118	17	32:1	149	EXIT(RUNNER)				
6119	17	32:1	153					
6120	17	32:0	153	END; (* P010B20 *)				
6121	17	32:0	170					
6122	17	32:0	170					
6123	17	31:0	0	BEGIN (* ENCOUNTR *)				
6124	17	31:1	0	IF (MAZELEV = 1) OR (MAZELEV >= 12) THEN				
6125	17	31:2	9	EXIT(ENCOUNTR)				
6126	17	31:1	13	ELSE IF (MAZELEV = 5) THEN				
6127	17	31:3	20	IF MAZE.FIGHTS[MAZEX][MAZEY] <> 1 THEN				
6128	17	31:4	36	EXIT(ENCOUNTR);				
6129	17	31:1	40	IF BASE7F4[17 - 1] <> 0 THEN				
6130	17	31:2	53	EXIT(ENCOUNTR);				
6131	17	31:1	57	BASE14	:= 1;			
6132	17	31:1	60	IF CHSTALRM = 1 THEN				
6133	17	31:2	66	ATTK012	:= 1			
6134	17	31:1	66	ELSE				
6135	17	31:2	71	BEGIN				
6136	17	31:3	71	IF FIGHTMAP[MAZEX][MAZEY] THEN				
6137	17	31:4	84	ATTK012	:= 2			
6138	17	31:3	84	ELSE				
6139	17	31:4	89	BEGIN				
6140	17	31:5	89	IF INITTURN AND (MAZE.FIGHTS[MAZEX][MAZEY] = 1) AND				
6141	17	31:5	107	(MAZE.FIGHTS[SAVEX][SAVEY] <> 1) THEN				
6142	17	31:6	126	ATTK012	:= 1			
6143	17	31:5	126	ELSE				
6144	17	31:6	131	IF (RAND MOD 10) <> 5 THEN				
6145	17	31:7	142	ATTK012	:= 0			
6146	17	31:6	142	ELSE				
6147	17	31:7	147	ATTK012	:= 1			

6148	17	31:4	147	END;			
6149	17	31:2	150	END;			
6150	17	31:2	150				
6151	17	31:2	150	(* 5F9E *)			
6152	17	31:1	150	WHILE ATTK012 >=0 DO			
6153	17	31:2	156	BEGIN			
6154	17	31:3	156	P010B20;			
6155	17	31:3	158	ATTK012 := ATTK012 - 1			
6156	17	31:2	160	END;			
6157	17	31:1	166	CLROOMFG(MAZEX, MAZEY)			
6158	17	31:1	168				
6159	17	31:0	168	END; (* ENCOUNTR *)			
6160	17	31:0	184				
6161	17	31:0	184				
6162	17	33:D	1	PROCEDURE RUNMAIN; (* P010B21 *)			
6163	17	33:D	1				
6164	17	33:D	1				
6165	17	34:D	1	PROCEDURE P010B22(MP01 : INTEGER);			
6166	17	34:D	2				
6167	17	34:0	0	BEGIN (* P010B22 *)			
6168	17	34:1	0	IF MP01 = 0 THEN			
6169	17	34:2	5	MP01 := 13			
6170	17	34:1	5	ELSE IF MP01 = -1 THEN			
6171	17	34:3	16	MP01 := 14			
6172	17	34:2	16	ELSE IF MP01 = 15 THEN			
6173	17	34:4	26	MP01 := 1;			
6174	17	34:4	29				
6175	17	34:1	29	MAZELEV := MP01;			
6176	17	34:1	32	BASE13 := 7;			
6177	17	34:1	35	IF MP01 = 5 THEN			
6178	17	34:2	40	BEGIN			
6179	17	34:3	40	READMAZ(15);			
6180	17	34:3	43	WRITEMAZ(5)			
6181	17	34:2	44	END;			
6182	17	34:1	46	PROTWIN(CHARSWIN, TRUE);			
6183	17	34:1	51	DRAWSCRN(FALSE);			
6184	17	34:1	54				
6185	17	34:1	54	EXIT(RUNNER)			
6186	17	34:1	58				
6187	17	34:0	58	END; (* P010B22 *)			
6188	17	34:0	70				
6189	17	34:0	70				
6190	17	35:D	1	PROCEDURE SPECSQAR; (* P010B23 *)			
6191	17	35:D	1				
6192	17	35:D	1	VAR			
6193	17	35:D	1	P23MP01 : INTEGER;			
6194	17	35:D	2	P23MP02 : INTEGER;			
6195	17	35:D	3	P23MP03 : INTEGER;			
6196	17	35:D	4	MP04 : INTEGER;			
6197	17	35:D	5	MP05 : INTEGER;			
6198	17	35:D	6	MP06 : INTEGER;			
6199	17	35:D	7	MP07 : 0..15; (* SQREXTRA VALUE *)			
6200	17	35:D	8				
6201	17	35:D	8				
6202	17	36:D	1	PROCEDURE SPINDIR; (* P010B24 *)			
6203	17	36:D	1				
6204	17	36:D	1	VAR			

6205	17	36:D	1	MP01 : INTEGER;			
6206	17	36:D	2	MP02 : INTEGER;			
6207	17	36:D	3	MP03 : INTEGER;			
6208	17	36:D	4				
6209	17	37:D	3	FUNCTION P010B25 : BOOLEAN;			
6210	17	37:D	3				
6211	17	37:0	0	BEGIN (* P010B25 *)			
6212	17	37:1	0	CASE MP01 OF			
6213	17	37:1	5	5: P010B25 := MAZE.N[MP03][MP02] <> OPEN;			
6214	17	37:1	27	6: P010B25 := MAZE.E[MP03][MP02] <> OPEN;			
6215	17	37:1	48	7: P010B25 := MAZE.S[MP03][MP02] <> OPEN;			
6216	17	37:1	69	8: P010B25 := MAZE.W[MP03][MP02] <> OPEN;			
6217	17	37:1	90	END;			
6218	17	37:1	106				
6219	17	37:0	106	END; (* P010B25 *)			
6220	17	37:0	118				
6221	17	37:0	118				
6222	17	36:0	0	BEGIN (* SPINDIR *)			
6223	17	36:0	0				
6224	17	36:1	0	CASE P23MP03 OF			
6225	17	36:1	5				
6226	17	36:1	5	0:			
6227	17	36:2	5	BEGIN			
6228	17	36:3	5	SPINCNT := P23MP02;			
6229	17	36:3	12	BSPIN := TRUE			
6230	17	36:2	12	END;			
6231	17	36:2	18				
6232	17	36:1	18	1:			
6233	17	36:2	18	BEGIN			
6234	17	36:3	18	SPINCNT := P23MP02;			
6235	17	36:3	25	BSPIN := TRUE;			
6236	17	36:3	29	SPINBLCK(MAZEX, MAZEY)			
6237	17	36:2	31	END;			
6238	17	36:2	35				
6239	17	36:1	35	2, 3:			
6240	17	36:2	35	BEGIN			
6241	17	36:3	35	FOR MP03 := 0 TO 19 DO			
6242	17	36:4	46	FOR MP02 := 0 TO 19 DO			
6243	17	36:5	57	BEGIN			
6244	17	36:6	57	MP01 := MAZE.SQREXTRA[MP03][MP02];			
6245	17	36:6	71	IF MAZE.SQRETYPE[MP01] = SPINNER THEN			
6246	17	36:7	84	IF P23MP03 <> 2 THEN			
6247	17	36:8	91	IF MAZE.AUX2[MP01] <> 4 THEN			
6248	17	36:9	103	BEGIN			
6249	17	36:0	103	SPINCNT := MAZE.AUX1[MP01];			
6250	17	36:0	115	BSPIN := TRUE;			
6251	17	36:0	119	SPINBLCK(MAZEX, MAZEY)			
6252	17	36:9	121	END;			
6253	17	36:5	123	END;			
6254	17	36:2	137	END;			
6255	17	36:1	139	4:			
6256	17	36:2	139	BEGIN			
6257	17	36:3	139	CASE P23MP02 OF			
6258	17	36:3	144	0, 1, 2: DIRECTIO := (DIRECTIO + P23MP02 + 1) MOD 4;			
6259	17	36:3	157	3: DIRECTIO := RAND MOD 4;			
6260	17	36:3	168	END;			
6261	17	36:2	184	END;			

6262	17	36:2	186				
6263	17	36:1	186	5, 6, 7, 8:			
6264	17	36:2	186	BEGIN			
6265	17	36:3	186	MP01 := P23MP03;			
6266	17	36:3	191	MP03 := P23MP02;			
6267	17	36:3	196	MP02 := P23MP01;			
6268	17	36:3	201	WHILE P010B25 DO			
6269	17	36:4	207	BEGIN			
6270	17	36:5	207	BSPIN := TRUE;			
6271	17	36:5	211	SPINCNT := 1;			
6272	17	36:5	216	SPINBLCK(MP03, MP02)			
6273	17	36:4	218	END;			
6274	17	36:2	222	END;			
6275	17	36:1	224	END;			
6276	17	36:1	250				
6277	17	36:1	250	DRAWMAZE;			
6278	17	36:1	252				
6279	17	36:0	252	END; (* SPINDIR *)			
6280	17	36:0	274				
6281	17	36:0	274				
6282	17	38:D	1	PROCEDURE QUIETXFR; (* P010B26 *)			
6283	17	38:D	1				
6284	17	38:0	0	BEGIN (* QUIETXFR *)			
6285	17	38:1	0	SAVEX := MAZEX;			
6286	17	38:1	3	SAVEY := MAZEY;			
6287	17	38:1	6	SAVELEV := MAZELEV;			
6288	17	38:1	9	MAZEX := P23MP03;			
6289	17	38:1	14	MAZEY := P23MP02;			
6290	17	38:1	19	IF MAZELEV <> P23MP01 THEN			
6291	17	38:2	26	P010B22(P23MP01)			
6292	17	38:0	29	END; (* QUIETXFR *)			
6293	17	38:0	44				
6294	17	38:0	44				
6295	17	39:D	1	PROCEDURE STAIRSYN; (* P010B27 *)			
6296	17	39:D	1				
6297	17	39:D	1	VAR			
6298	17	39:D	1	MP01 : INTEGER;			
6299	17	39:D	2				
6300	17	39:0	0	BEGIN (* STAIRSYN *)			
6301	17	39:1	0	BASE10 := GETWIN(9, 10, 22, 4, 15, TRUE);			
6302	17	39:1	13	MP01 := MAZELEV;			
6303	17	39:1	16	IF MP01 > 12 THEN			
6304	17	39:2	21	MP01 := 13 - MP01;			
6305	17	39:1	26	IF MP01 < P23MP01 THEN			
6306	17	39:2	33	DISP1LIN(BASE10, 703) (* STAIRS DOWN *)			
6307	17	39:1	37	ELSE			
6308	17	39:2	42	DISP1LIN(BASE10, 704); (* STAIRS UP *)			
6309	17	39:2	49				
6310	17	39:1	49	DISP1LIN(BASE10, 705); (* TAKE THEM (Y/N)? *)			
6311	17	39:1	56	GETMSGTX(BASE47, 706); (* Y *)			
6312	17	39:1	64	GETMSGTX(BASEC7, 707); (* N *)			
6313	17	39:1	73	REPEAT			
6314	17	39:2	73	GETKEY			
6315	17	39:1	73	UNTIL (INCHAR = BASE47[1]) OR (INCHAR = BASEC7[1]);			
6316	17	39:1	92				
6317	17	39:1	92	DELWIN(BASE10, TRUE);			
6318	17	39:1	98	IF (INCHAR = BASE47[1]) THEN			

6319	17	39:2	106	BEGIN			
6320	17	39:3	106	IF (MAZELEV = 10) AND (P23MP01 = 9) THEN			
6321	17	39:4	117	DIRECTIO := EAST;			
6322	17	39:3	120	QUIETXFR			
6323	17	39:2	120	END			
6324	17	39:2	122				
6325	17	39:0	122	END; (* STAIRSYN *)			
6326	17	39:0	136				
6327	17	39:0	136				
6328	17	40:D	1	PROCEDURE VERYDARK; (* P010B28 *)			
6329	17	40:D	1				
6330	17	40:0	0	BEGIN (* VERYDARK *)			
6331	17	40:1	0	IF P23MP02 = 0 THEN			
6332	17	40:2	7	LIGHT := 0			
6333	17	40:0	7	END; (* VERYDARK *)			
6334	17	40:0	22				
6335	17	40:0	22				
6336	17	41:D	1	PROCEDURE ROCKWATR; (* P010B29 *)			
6337	17	41:D	1				
6338	17	41:0	0	BEGIN (* ROCKWATR *)			
6339	17	41:1	0	CHARACTR[6].STATUS := LOST;			
6340	17	41:1	10	SPECMMSG(709); (* YOU ARE IN ROCK! *)			
6341	17	41:1	15	DSPPARTY;			
6342	17	41:1	17	MAZELEV := 0;			
6343	17	41:1	20	BASE13 := 14;			
6344	17	41:1	23	DRAWSCRN(FALSE);			
6345	17	41:1	26	EXIT(RUNNER)			
6346	17	41:0	30	END; (* ROCKWATR *)			
6347	17	41:0	42				
6348	17	41:0	42				
6349	17	42:D	1	PROCEDURE P010B2A;			
6350	17	42:D	1				
6351	17	42:D	1	VAR			
6352	17	42:D	1	MP01 : INTEGER;			
6353	17	42:D	2	MP02 : INTEGER;			
6354	17	42:D	3	MP03 : INTEGER;			
6355	17	42:D	4				
6356	17	42:0	0	BEGIN (* P010B2A *)			
6357	17	42:1	0	WITH CHARACTR[6] DO			
6358	17	42:2	8	BEGIN			
6359	17	42:3	8	IF STATUS < DEAD THEN			
6360	17	42:4	15	BEGIN			
6361	17	42:5	15	IF P23MP02 >= 0 THEN			
6362	17	42:6	22	BEGIN			
6363	17	42:7	22	MP01 := P23MP01;			
6364	17	42:7	27	FOR MP02 := 1 TO ABS(P23MP03) DO			
6365	17	42:8	41	MP01 := MP01 + (RAND MOD ABS(P23MP02)) + 1;			
6366	17	42:6	64	END			
6367	17	42:5	64	ELSE			
6368	17	42:6	66	BEGIN			
6369	17	42:7	66	MP01 := P23MP03;			
6370	17	42:7	71	IF P23MP01 <> 0 THEN			
6371	17	42:8	78	MP01 := MP01 + (RAND MOD ABS(P23MP01))			
6372	17	42:6	89	END;			
6373	17	42:5	92	HLEFT := HLEFT - MP01;			
6374	17	42:5	101	IF HLEFT <= 0 THEN			
6375	17	42:6	108	BEGIN			

6376	17	42:7	108	HPLEFT := 0;			
6377	17	42:7	113	STATUS := DEAD			
6378	17	42:6	116	END			
6379	17	42:4	118	END;			
6380	17	42:3	118	DSFPARTY			
6381	17	42:2	118	END;			
6382	17	42:2	120				
6383	17	42:0	120	END; (* P010B2A *)			
6384	17	42:0	134				
6385	17	42:0	134				
6386	17	43:D	1	PROCEDURE CHENCOUN; (* P010B2B *)			
6387	17	43:D	1				
6388	17	43:D	1	VAR			
6389	17	43:D	1	MP01 : INTEGER;			
6390	17	43:D	2	MP02 : INTEGER;			
6391	17	43:D	3				
6392	17	43:0	0	BEGIN (* CHENCOUN *)			
6393	17	43:1	0	IF (P23MP01 = 0) OR (NOT FIGHTMAP[MAZEX][MAZEY]) THEN			
6394	17	43:2	20	EXIT(CHENCOUN);			
6395	17	43:1	24	IF (MAZELEV = 6) AND (BASE7F4[18 - 1] > 0) THEN			
6396	17	43:2	41	BEGIN			
6397	17	43:3	41	SPECMMSG(272); (* THE FUMES REPEL THE INSECTS! *)			
6398	17	43:3	46	BASE7F4[18 - 1] := BASE7F4[18 - 1] - 1;			
6399	17	43:3	66	EXIT(CHENCOUN)			
6400	17	43:2	70	END;			
6401	17	43:1	70	BASE27 := P23MP03;			
6402	17	43:1	75	IF P23MP02 > 1 THEN			
6403	17	43:2	82	BASE27 := BASE27 + (RAND MOD P23MP02);			
6404	17	43:1	96	BASE14 := 0;			
6405	17	43:1	99	ATTK012 := 2;			
6406	17	43:1	102	BASE13 := 6;			
6407	17	43:1	105	IF BASE87B[BASE27] THEN			
6408	17	43:2	116	BEGIN			
6409	17	43:3	116	CLROOMFG(MAZEX, MAZEY);			
6410	17	43:3	120	EXIT(CHENCOUN)			
6411	17	43:2	124	END;			
6412	17	43:1	124	MAZE.SQRETYPE[MP07] := CHUTE;			
6413	17	43:1	136	CLROOMFG(MAZEX, MAZEY);			
6414	17	43:1	140	MAZE.SQRETYPE[MP07] := ENCOUNTE;			
6415	17	43:1	152	IF MAZE.AUX0[MP07] > 0 THEN			
6416	17	43:2	166	BEGIN			
6417	17	43:3	166	MAZE.AUX0[MP07] := MAZE.AUX0[MP07] - 1;			
6418	17	43:3	188	IF MAZE.AUX0[MP07] = 0 THEN			
6419	17	43:4	202	MAZE.SQRETYPE[MP07] := NORMAL;			
6420	17	43:3	214	CHKWRMIZ(TRUE)			
6421	17	43:2	215	END;			
6422	17	43:1	217	UNITCLEAR(2);			
6423	17	43:1	220	SPECMMSG(702); (* AN ENCOUNTER *)			
6424	17	43:1	225	PAUSE2;			
6425	17	43:1	228	DRAWSCRN(FALSE);			
6426	17	43:1	231				
6427	17	43:1	231	EXIT(RUNNER)			
6428	17	43:1	235				
6429	17	43:0	235	END; (* CHENCOUN *)			
6430	17	43:0	248				
6431	17	43:0	248				
6432	17	44:D	1	PROCEDURE DOSCNMSG; (* P010B2C *)			

6433	17	44:D	1				
6434	17	44:D	1				
6435	17	45:D	1	PROCEDURE	P010B2D;		
6436	17	45:D	1				
6437	17	45:D	1	VAR			
6438	17	45:D	1	MP01	: INTEGER;		
6439	17	45:D	2	MP02	: INTEGER;		
6440	17	45:D	3				
6441	17	45:0	0	BEGIN	(* P010B2D *)		
6442	17	45:1	0	IF NOT	FIGHTMAP[MAZEX][MAZEY] THEN		
6443	17	45:2	14	EXIT	(DOSCNMSG);		
6444	17	45:1	18	IF	(MAZELEV = 6) AND (BASE7F4[18 - 1] > 0) THEN		
6445	17	45:2	35	BEGIN			
6446	17	45:3	35	SPECMMSG	(272); (* THE FUMES REPEL THE INSECTS *)		
6447	17	45:3	40	BASE7F4	[18 - 1] := BASE7F4[18 - 1] - 1;		
6448	17	45:3	60	EXIT	(DOSCNMSG)		
6449	17	45:2	64	END;			
6450	17	45:1	64	IF	BASE7F4[17 - 1] <> 0 THEN		
6451	17	45:2	77	IF	MAZELEV = 1 THEN		
6452	17	45:3	82	EXIT	(DOSCNMSG);		
6453	17	45:1	86	BASE27	:= P23MP02;		
6454	17	45:1	91	BASE14	:= 0;		
6455	17	45:1	94	ATTK012	:= 2;		
6456	17	45:1	97	IF	P23MP01 = -2 THEN		
6457	17	45:2	105	ATTK012	:= 3;		
6458	17	45:1	108	BASE13	:= 6;		
6459	17	45:1	111	BASE87B	[BASE27] := FALSE;		
6460	17	45:1	121	MAZE.SQRETYPE	[MP07] := CHUTE;		
6461	17	45:1	133	CLROOMFG	(MAZEX, MAZEY);		
6462	17	45:1	137	MAZE.SQRETYPE	[MP07] := SCNMSG;		
6463	17	45:1	149	UNITCLEAR	(2);		
6464	17	45:1	152	SPECMMSG	(702); (* AN ENCOUNTER *)		
6465	17	45:1	157	PAUSE2;			
6466	17	45:1	160	DRAWSCRN	(FALSE);		
6467	17	45:1	163				
6468	17	45:1	163	EXIT	(RUNNER)		
6469	17	45:1	167				
6470	17	45:0	167	END;	(* P010B2D *)		
6471	17	45:0	180				
6472	17	45:0	180				
6473	17	44:0	0	BEGIN	(* DOSCNMSG *)		
6474	17	44:1	0	IF	P23MP03 = 600 THEN		
6475	17	44:2	9	P010B2D;			
6476	17	44:1	11	BASE09	:= MP07;		
6477	17	44:1	16	BASE13	:= 21;		
6478	17	44:1	19	BASE2B	:= 5;		
6479	17	44:1	22	DRAWSCRN	(FALSE);		
6480	17	44:1	25	EXIT	(RUNNER)		
6481	17	44:0	29	END;	(* DOSCNMSG *)		
6482	17	44:0	42				
6483	17	44:0	42				
6484	17	46:D	1	PROCEDURE	BUTTONS; (* P010B2E *)		
6485	17	46:D	1				
6486	17	46:D	1	VAR			
6487	17	46:D	1	MP01	: INTEGER;		
6488	17	46:D	2	MP02	: INTEGER;		
6489	17	46:D	3	MP03	: INTEGER;		

6490	17	46:D	4	MP04 : INTEGER;			
6491	17	46:D	5	MP05 : CHAR;			
6492	17	46:D	6	MP06 : CHAR;			
6493	17	46:D	7	MP07 : TLONGSTR;			
6494	17	46:D	135	MP87 : STRING[19];			
6495	17	46:D	145				
6496	17	46:D	145				
6497	17	46:0	0	BEGIN (* BUTTONS *)			
6498	17	46:1	0	MP87 := 'CBA123456789MLBC';			
6499	17	46:1	24	MP02 := P23MP03;			
6500	17	46:1	29	MP01 := P23MP02;			
6501	17	46:1	34	BASE10 := GETWIN(0, 10, 40, 6, 15, TRUE);			
6502	17	46:1	47	DISP1LIN(BASE10, 710);	(* THERE ARE TWO BUTTONS *)		
6503	17	46:1	54	GETMSGTX(MP07, 711);	(* HERE MARKED ^ AND #. *)		
6504	17	46:1	62	MP04 := POS('^', MP07);			
6505	17	46:1	72	MP06 := MP87[MP02 + 2];			
6506	17	46:1	81	MP07[MP04] := MP06;			
6507	17	46:1	86	MP04 := POS('#', MP07);			
6508	17	46:1	96	MP05 := MP87[MP01 + 2];			
6509	17	46:1	105	MP07[MP04] := MP05;			
6510	17	46:1	110	CENTSTR(BASE10, MP07);			
6511	17	46:1	116	PRINTCR(BASE10);			
6512	17	46:1	120	DISP1LIN(BASE10, 712);	(* PRESS ONE (~ TO LEAVE) *)		
6513	17	46:1	127	DELWIN(BASE10, FALSE);			
6514	17	46:1	133				
6515	17	46:1	133	REPEAT			
6516	17	46:2	133	GETKEY			
6517	17	46:1	133	UNTIL (INCHAR = CHR(CRETURN)) OR			
6518	17	46:1	139	(INCHAR = MP06) OR			
6519	17	46:1	143	(INCHAR = MP05);			
6520	17	46:1	149				
6521	17	46:1	149	IF INCHAR = CHR(CRETURN) THEN			
6522	17	46:2	154	BEGIN			
6523	17	46:3	154	DRAWSCR2(WINCHAIN);			
6524	17	46:3	158	EXIT(BUTTONS);			
6525	17	46:2	162	END;			
6526	17	46:1	162	IF P23MP01 > 0 THEN			
6527	17	46:2	169	BEGIN			
6528	17	46:3	169	MAZEX := RAND MOD 20;			
6529	17	46:3	178	MAZEY := RAND MOD 20;			
6530	17	46:3	187	SAVEX := MAZEX;			
6531	17	46:3	190	SAVEY := MAZEY			
6532	17	46:2	190	END;			
6533	17	46:1	193	IF INCHAR = MP06 THEN			
6534	17	46:2	198	P010B22(MP02)			
6535	17	46:1	199	ELSE			
6536	17	46:2	203	P010B22(MP01)			
6537	17	46:2	204				
6538	17	46:0	204	END; (* BUTTONS *)			
6539	17	46:0	220				
6540	17	46:0	220				
6541	17	47:D	1	PROCEDURE P010B2F;			
6542	17	47:D	1				
6543	17	47:D	1	VAR			
6544	17	47:D	1	MP01 : INTEGER;			
6545	17	47:D	2	MP02 : INTEGER;			
6546	17	47:D	3	MP03 : INTEGER;			

6547	17	47:D	4	MP04 : INTEGER;			
6548	17	47:D	5				
6549	17	47:0	0	BEGIN (* P010B2F *)			
6550	17	47:1	0	MP04 := ABS(P23MP03);			
6551	17	47:1	6				
6552	17	47:1	6	REPEAT			
6553	17	47:1	6				
6554	17	47:2	6	GETMSGTX(BASE47, MP04);			
6555	17	47:2	12	MP01 := 1;			
6556	17	47:2	15	IF BASE47 = '**ERR**' THEN			
6557	17	47:3	31	BEGIN			
6558	17	47:4	31	BASE47 := 'IND ERR';			
6559	17	47:4	45	SPECMMSG(-1);			
6560	17	47:4	49	GETCR;			
6561	17	47:4	52	EXIT(P010B2F)			
6562	17	47:3	56	END;			
6563	17	47:2	56	MOVELEFT(BASE47[1], MP03, 2);			
6564	17	47:2	65	MOVELEFT(BASE47[3], MP02, 2);			
6565	17	47:2	74	IF (MAZEX = MP03) AND (MAZEY = MP02) THEN			
6566	17	47:3	83	BEGIN			
6567	17	47:4	83	MOVELEFT(BASE47[5], P23MP03, 2);			
6568	17	47:4	93	MOVELEFT(BASE47[7], P23MP02, 2);			
6569	17	47:4	103	MOVELEFT(BASE47[9], P23MP01, 2);			
6570	17	47:4	113	EXIT(P010B2F)			
6571	17	47:3	117	END;			
6572	17	47:2	117	MP04 := MP04 + 1;			
6573	17	47:2	122				
6574	17	47:1	122	UNTIL FALSE			
6575	17	47:1	122				
6576	17	47:0	122	END; (* P010B2F *)			
6577	17	47:0	140				
6578	17	47:0	140				
6579	17	35:0	0	BEGIN (* SPECSQAR *)			
6580	17	35:0	0				
6581	17	35:1	0	REPEAT			
6582	17	35:1	0				
6583	17	35:2	0	MP07 := MAZE.SQREXTRA[MAZEX][MAZEY];			
6584	17	35:2	14	P23MP03 := MAZE.AUX2[MP07];			
6585	17	35:2	24	P23MP02 := MAZE.AUX1[MP07];			
6586	17	35:2	34	P23MP01 := MAZE.AUX0[MP07];			
6587	17	35:2	44	IF P23MP03 < -10000 THEN			
6588	17	35:3	52	P010B2F;			
6589	17	35:2	54	MP06 := MAZEX;			
6590	17	35:2	57	MP05 := MAZEY;			
6591	17	35:2	60	MP04 := 0;			
6592	17	35:2	63				
6593	17	35:2	63	CASE MAZE.SQRETYPE[MP07] OF			
6594	17	35:2	74				
6595	17	35:2	74	FIZZLE: FIZZLES := 1;			
6596	17	35:2	79	ROCKWATE: ROCKWATR;			
6597	17	35:2	83	BUTTONZ: BUTTONS;			
6598	17	35:2	87				
6599	17	35:2	87	STAIRS: IF INITTURN THEN			
6600	17	35:4	92	STAIRSYN;			
6601	17	35:4	96				
6602	17	35:2	96	PIT: IF INITTURN THEN (* APIT *)			
6603	17	35:4	101	BEGIN			

6604	17	35:5	101	IF (MAZELEV > 12) OR (BASE7F4[1 - 1] = 0) THEN
6605	17	35:6	118	BEGIN
6606	17	35:7	118	IF P23MP02 < 0 THEN
6607	17	35:8	123	BEGIN
6608	17	35:9	123	IF MAZELEV > 12 THEN
6609	17	35:0	128	MP04 := 13 - MAZELEV - P23MP02
6610	17	35:9	131	ELSE
6611	17	35:0	137	MP04 := MAZELEV - P23MP02;
6612	17	35:0	142	
6613	17	35:9	142	IF P23MP02 = -1 THEN
6614	17	35:0	148	SPECMMSG(730) (* YOU FELL DOWN A
6615	17	35:0	151	WHOLE STORY! *)
6616	17	35:9	151	ELSE
6617	17	35:0	155	SPECMMSG(731); (* YOU FELL DOWN 2
6618	17	35:0	160	STORIES *)
6619	17	35:9	160	PAUSE2;
6620	17	35:9	163	P010B2A;
6621	17	35:9	165	P010B22(MP04)
6622	17	35:8	166	END;
6623	17	35:8	168	(* 66EE *)
6624	17	35:8	168	
6625	17	35:7	168	IF MAZELEV = 9 THEN
6626	17	35:8	173	SPECMMSG(732) (* KABLAM! LAND MINE! *)
6627	17	35:7	176	ELSE
6628	17	35:8	180	SPECMMSG(723); (* A PIT! *)
6629	17	35:8	185	
6630	17	35:7	185	PAUSE2;
6631	17	35:7	188	P010B2A;
6632	17	35:6	190	END
6633	17	35:5	190	ELSE
6634	17	35:5	192	
6635	17	35:5	192	(* 6706 *)
6636	17	35:6	192	BEGIN
6637	17	35:7	192	IF MAZELEV = 9 THEN
6638	17	35:8	197	MP04 := 733
6639	17	35:8	197	(* YOU LEVITATE OVER THE MINEFIELD*)
6640	17	35:7	197	ELSE
6641	17	35:8	204	MP04 := 729; (* YOU LEVITATE OVER THE PIT! *)
6642	17	35:6	209	END;
6643	17	35:6	209	
6644	17	35:6	209	(* 6717 *)
6645	17	35:4	209	END;
6646	17	35:4	211	
6647	17	35:2	211	OUCHY: (* OUCH; *) (* 6719 *)
6648	17	35:3	211	BEGIN
6649	17	35:4	211	IF MAZELEV = 8 THEN
6650	17	35:5	216	BEGIN
6651	17	35:6	216	IF BASE7F4[1 - 1] = 0 THEN
6652	17	35:7	229	BEGIN
6653	17	35:8	229	MP04 := 2509;
6654	17	35:8	234	(* YOU FELL OFF THE ZIGGURAT! *)
6655	17	35:8	234	MAZEY := MAZEY - 1;
6656	17	35:8	239	P010B2A
6657	17	35:7	239	END
6658	17	35:6	241	ELSE
6659	17	35:7	243	MP04 := 728; (* YOU ARE FLYING! *)
6660	17	35:5	248	END

6661	17	35:4	248	ELSE			
6662	17	35:5	250	BEGIN			
6663	17	35:6	250	P010B2A;			
6664	17	35:6	252	SPECMMSG(713); (* OUCH! *)			
6665	17	35:6	257	PAUSE2			
6666	17	35:5	257	END;			
6667	17	35:3	260	END;			
6668	17	35:3	262				
6669	17	35:2	262	CHUTE: BEGIN			
6670	17	35:4	262	SPECMMSG(714); (* A CHUTE *)			
6671	17	35:4	267	PAUSE2;			
6672	17	35:4	270	QUIETXFR			
6673	17	35:3	270	END;			
6674	17	35:3	274				
6675	17	35:2	274	SPINNER: IF INITTURN THEN			
6676	17	35:4	279	SPINDIR;			
6677	17	35:2	283	TRANSFER: QUIETXFR;			
6678	17	35:2	287	DARK: VERYDARK;			
6679	17	35:2	291	SCNMSG: DOSCNMSG;			
6680	17	35:2	295	ENCOUNTE: CHENCOUN;			
6681	17	35:2	299	END;			
6682	17	35:2	330				
6683	17	35:2	330	IF (MP06 <> MAZEX) OR (MP05 <> MAZEY) THEN			
6684	17	35:3	339	DRAWMAZE;			
6685	17	35:2	341	IF MP04 <> 0 THEN			
6686	17	35:3	346	BEGIN			
6687	17	35:4	346	SPECMMSG(MP04);			
6688	17	35:4	349	PAUSE2;			
6689	17	35:4	352	MP04 := 0			
6690	17	35:3	352	END;			
6691	17	35:3	355				
6692	17	35:1	355	UNTIL (MP06 = MAZEX) AND (MP05 = MAZEY)			
6693	17	35:1	361				
6694	17	35:0	361	END; (* SPECSQAR *)			
6695	17	35:0	382				
6696	17	35:0	382				
6697	17	35:0	382	(*I WIZ4B:RUNNER2 *)			
6697	17	35:0	382	(*I WIZ4B:RUNNER3 *)			
6698	17	35:0	382				
6699	17	35:0	382	(* RUNNER3 *)			
6700	17	35:0	382				
6701	17	35:0	382				
6702	17	48:D	1	PROCEDURE BUMPWALL; (* P010B30 *)			
6703	17	48:D	1				
6704	17	48:0	0	BEGIN (* BUMPWALL *)			
6705	17	48:1	0	SPECMMSG(715); (* YOU CAN'T WALK THROUGH WALLS! *)			
6706	17	48:1	5	UNITCLEAR(2); (* 2 = SYSTEM; 1 = CONSOLE *)			
6707	17	48:1	8	BEEPSPKR(2)			
6708	17	48:0	9	END; (* BUMPWALL *)			
6709	17	48:0	24				
6710	17	48:0	24				
6711	17	49:D	1	PROCEDURE DSPARROW(ARROWCH : CHAR); (* P010B31 *)			
6712	17	49:D	2				
6713	17	49:D	2				
6714	17	49:0	0	BEGIN (* DSPARROW *)			
6715	17	49:1	0	MVCURSOR(MAINWIN, 17, 11);			
6716	17	49:1	7	PRPICCH(MAINWIN, ARROWCH);			

6717	17	49:1	13	PRPICCH(MAINWIN, ARROWCH);			
6718	17	49:1	19	MVCURSOR(MAINWIN, 17, 12);			
6719	17	49:1	26	PRPICCH(MAINWIN, ARROWCH);			
6720	17	49:1	32	PRPICCH(MAINWIN, ARROWCH)			
6721	17	49:0	35	END; (* DSPARROW *)			
6722	17	49:0	50				
6723	17	49:0	50				
6724	17	50:D	1	PROCEDURE P010B32;			
6725	17	50:D	1				
6726	17	50:0	0	BEGIN (* P010B32 *)			
6727	17	50:1	0	IF BASE7F4[6 - 1] <= 0 THEN			
6728	17	50:2	13	EXIT(P010B32);			
6729	17	50:1	17	BASE7F4[6 - 1] := BASE7F4[6 - 1] - 1;			
6730	17	50:1	37	SPECMMSG(380 + BASE7F4[6 - 1]);			
6731	17	50:1	52	IF BASE7F4[6 - 1] = 0 THEN			
6732	17	50:2	65	BEGIN			
6733	17	50:2	65				
6734	17	50:2	65	(* *** KABALAAMMMOOOOO *** *)			
6735	17	50:2	65				
6736	17	50:3	65	IF (BASE7F4[12 - 1] = 2) AND			
6737	17	50:3	76	(BASE7F4[10 - 1] = 15) AND			
6738	17	50:3	88	(BASE7F4[11 - 1] = 15) THEN			
6739	17	50:4	102	BEGIN			
6740	17	50:5	102	BASE80B := 1;			
6741	17	50:5	106	MAZE.N[15, 15] := OPEN;			
6742	17	50:5	119	MAZE.S[15, 16] := OPEN;			
6743	17	50:5	131	PAUSE2;			
6744	17	50:5	134	DRAWMAZE;			
6745	17	50:5	136				
6746	17	50:4	136	END;			
6747	17	50:4	136				
6748	17	50:3	136	IF (MAZEX = BASE7F4[10 - 1]) AND			
6749	17	50:3	147	(MAZEY = BASE7F4[11 - 1]) AND			
6750	17	50:3	159	(MAZELEV = BASE7F4[12 - 1]) THEN			
6751	17	50:4	173	BEGIN			
6752	17	50:5	173	CHARACTR[6].HPLEFT := 0;			
6753	17	50:5	183	CHARACTR[6].STATUS := DEAD;			
6754	17	50:5	193	DSPPARTY			
6755	17	50:4	193	END			
6756	17	50:4	195				
6757	17	50:2	195	END;			
6758	17	50:2	195				
6759	17	50:0	195	END; (* P010B32 *)			
6760	17	50:0	210				
6761	17	50:0	210				
6762	17	51:D	1	PROCEDURE FORWRD(ARROWCH : CHAR); (* P010B33 *)			
6763	17	51:D	2				
6764	17	51:D	2	VAR			
6765	17	51:D	2	MP02 : INTEGER;			
6766	17	51:D	3	MP03 : INTEGER;			
6767	17	51:D	4	MP04 : INTEGER;			
6768	17	51:D	5	MP05 : TWALL;			
6769	17	51:D	6				
6770	17	51:D	6				
6771	17	52:D	1	PROCEDURE MOVEFRWD; (* P010B34 *)			
6772	17	52:D	1				
6773	17	52:D	1	VAR			

6774	17	52:D	1	SQREXTRA: 0..15;				
6775	17	52:D	2					
6776	17	52:D	2					
6777	17	53:D	1	PROCEDURE MVORACLE; (* P010B35 *)				
6778	17	53:D	1					
6779	17	53:D	1	VAR				
6780	17	53:D	1	ORCLYDIR : INTEGER;				
6781	17	53:D	2	ORCLXDIR : INTEGER;				
6782	17	53:D	3	UNUSED : INTEGER;				
6783	17	53:D	4	NEWDIST : INTEGER;				
6784	17	53:D	5	STEPS : INTEGER;				
6785	17	53:D	6	DST2ORAC : INTEGER;				
6786	17	53:D	7	ORACLDIR : INTEGER;				
6787	17	53:D	8	BIZARRE : BOOLEAN;				
6788	17	53:D	9	WALLTHNG : TWALL;				
6789	17	53:D	10					
6790	17	53:D	10					
6791	17	54:D	3	FUNCTION DISTCALC(XDIR : INTEGER; (* P010B36 *)				
6792	17	54:D	4	YDIR : INTEGER) : INTEGER;				
6793	17	54:D	5					
6794	17	54:0	0	BEGIN (* DISTCALC *)				
6795	17	54:1	0	ORCLXDIR := XDIR;				
6796	17	54:1	4	ORCLYDIR := YDIR;				
6797	17	54:1	8					
6798	17	54:1	8	(* DOES NOT ACCOUNT FOR MAZE WRAP-AROUND *)				
6799	17	54:1	8					
6800	17	54:1	8	DISTCALC := ABS(ORACLEX + XDIR - MAZEX) +				
6801	17	54:1	17	ABS(ORACLEY + YDIR - MAZEY)				
6802	17	54:0	26	END; (* DISTCALC *)				
6803	17	54:0	42					
6804	17	54:0	42					
6805	17	53:0	0	BEGIN (* MVORACLE *)				
6806	17	53:1	0	IF (RAND MOD 100) < 10 THEN				
6807	17	53:2	11	EXIT(MVORACLE);				
6808	17	53:1	15	ORACLDIR := RAND MOD 4;				
6809	17	53:1	24	DST2ORAC := DISTCALC(0, 0); (* ORIGINAL DISTANCE APART *)				
6810	17	53:1	32					
6811	17	53:1	32	(* BIZARRE CODE: *)				
6812	17	53:1	32					
6813	17	53:1	32	FOR BIZARRE := FALSE TO TRUE DO				
6814	17	53:2	47	BEGIN				
6815	17	53:3	47	FOR STEPS := 0 TO 3 DO				
6816	17	53:4	58	BEGIN				
6817	17	53:5	58	CASE ORACLDIR OF				
6818	17	53:5	61	NORTH: NEWDIST := DISTCALC(0, 1);				
6819	17	53:5	71	EAST: NEWDIST := DISTCALC(1, 0);				
6820	17	53:5	81	SOUTH: NEWDIST := DISTCALC(0, -1);				
6821	17	53:5	92	WEST: NEWDIST := DISTCALC(-1, 0);				
6822	17	53:5	103	END;				
6823	17	53:5	118					
6824	17	53:5	118	IF NEWDIST > DST2ORAC THEN				
6825	17	53:6	123	BEGIN				
6826	17	53:7	123	CASE ORACLDIR OF				
6827	17	53:7	126	NORTH: WALLTHNG := MAZE.N[ORACLEX][ORACLEY];				
6828	17	53:7	148	EAST: WALLTHNG := MAZE.E[ORACLEX][ORACLEY];				
6829	17	53:7	169	SOUTH: WALLTHNG := MAZE.S[ORACLEX][ORACLEY];				
6830	17	53:7	190	WEST: WALLTHNG := MAZE.W[ORACLEX][ORACLEY];				

6831	17	53:7	211	END;			
6832	17	53:7	226				
6833	17	53:7	226	IF (WALLTHNG = OPEN) OR			
6834	17	53:7	229	((BIZARRE AND (WALLTHNG <> WALL)) AND			
6835	17	53:7	234	((RAND MOD 100) < 75)) THEN			
6836	17	53:8	247	BEGIN			
6837	17	53:9	247	ORACLEX := (ORACLEX + ORCLXDIR + 20) MOD 20;			
6838	17	53:9	261	ORACLEY := (ORACLEY + ORCLYDIR + 20) MOD 20;			
6839	17	53:9	275	EXIT(MVORACLE)			
6840	17	53:8	279	END			
6841	17	53:6	279	END;			
6842	17	53:6	279				
6843	17	53:5	279	ORACLDIR := (ORACLDIR + 1) MOD 4;			
6844	17	53:5	286				
6845	17	53:4	286	END;			
6846	17	53:2	293	END;			
6847	17	53:2	300				
6848	17	53:0	300	END; (* MVORACLE *)			
6849	17	53:0	322				
6850	17	53:0	322				
6851	17	52:0	0	BEGIN (* MOVEFRWD *)			
6852	17	52:1	0	SQREXTRA := MAZE.SQREXTRA[MAZEX][MAZEY];			
6853	17	52:1	14	IF MAZE.SQRETYPE[SQREXTRA] = DARK THEN			
6854	17	52:2	27	IF MAZE.AUX1[SQREXTRA] = 2 THEN			
6855	17	52:3	39	IF (MP05 = DOOR) OR (MP05 = HIDE DOOR) THEN			
6856	17	52:4	52	EXIT (MOVEFRWD);			
6857	17	52:1	56	IF BMVORACL THEN			
6858	17	52:2	62	MVORACLE;			
6859	17	52:1	64	NEEDDRMZ := TRUE;			
6860	17	52:1	68	INITTURN := TRUE;			
6861	17	52:1	72	SAVEX := MAZEX;			
6862	17	52:1	75	SAVEY := MAZEY;			
6863	17	52:1	78	SAVELEV := MAZELEV;			
6864	17	52:1	81				
6865	17	52:1	81	CASE DIRECTIO OF			
6866	17	52:1	84	NORTH: MAZEY := MAZEY + 1;			
6867	17	52:1	91	EAST: MAZEX := MAZEX + 1;			
6868	17	52:1	98	SOUTH: MAZEY := MAZEY - 1;			
6869	17	52:1	105	WEST: MAZEX := MAZEX - 1;			
6870	17	52:1	112	END;			
6871	17	52:1	128				
6872	17	52:1	128	MAZEY := (MAZEY + 20) MOD 20;			
6873	17	52:1	135	MAZEX := (MAZEX + 20) MOD 20;			
6874	17	52:1	142				
6875	17	52:1	142	BEEPSPKR(1)			
6876	17	52:1	143				
6877	17	52:0	143	END; (* MOVEFRWD *)			
6878	17	52:0	158				
6879	17	52:0	158				
6880	17	51:0	0	BEGIN (* FORWRD *)			
6881	17	51:1	0	MP03 := MAZEX;			
6882	17	51:1	3	MP02 := MAZEY;			
6883	17	51:1	6	CASE DIRECTIO OF			
6884	17	51:1	9	NORTH: MP05 := MAZE.N[MAZEX][MAZEY];			
6885	17	51:1	25	EAST: MP05 := MAZE.E[MAZEX][MAZEY];			
6886	17	51:1	40	SOUTH: MP05 := MAZE.S[MAZEX][MAZEY];			
6887	17	51:1	55	WEST: MP05 := MAZE.W[MAZEX][MAZEY];			

6888	17	51:1	70	END;				
6889	17	51:1	86	MP04 := MAZE.SQREXTRA[MAZEX][MAZEY];				
6890	17	51:1	100	IF (MP05 = OPEN) OR (MP05 = DOOR) OR				
6891	17	51:1	107	(MP05 = HIDE DOOR) AND (LIGHT > 0) THEN				
6892	17	51:2	118	MOVEFRWD				
6893	17	51:1	118	ELSE				
6894	17	51:2	122	IF MP05 = HIDE DOOR THEN				
6895	17	51:3	127	IF MAZE.SQRETYPE[MP04] = DARK THEN				
6896	17	51:4	140	MOVEFRWD;				
6897	17	51:1	142	IF NOT INITTURN THEN				
6898	17	51:2	148	BUMPWALL				
6899	17	51:1	148	ELSE				
6900	17	51:2	152	BEGIN				
6901	17	51:3	152	SPINBLCK(MP03, MP02);				
6902	17	51:3	156	DSPARROW(ARROWCH)				
6903	17	51:2	157	END				
6904	17	51:2	159					
6905	17	51:0	159	END; (* FORWRD *)				
6906	17	51:0	172					
6907	17	51:0	172					
6908	17	55:D	1	PROCEDURE DOTURN(MP02 : INTEGER; (* P010B37 *)				
6909	17	55:D	2	ARROWCH : CHAR);				
6910	17	55:D	3					
6911	17	55:0	0	BEGIN (* DOTURN *)				
6912	17	55:1	0	NEEDDRMZ := TRUE;				
6913	17	55:1	4	DIRECTIO := (DIRECTIO + MP02) MOD 4;				
6914	17	55:1	11	DSPARROW(ARROWCH)				
6915	17	55:1	12					
6916	17	55:0	12	END; (* DOTURN *)				
6917	17	55:0	26					
6918	17	55:0	26					
6919	17	56:D	1	PROCEDURE SETTIME; (* P010B38 *)				
6920	17	56:D	1					
6921	17	56:D	1	VAR				
6922	17	56:D	1	TIMEVAL : INTEGER;				
6923	17	56:D	2	TIMESTR : STRING;				
6924	17	56:D	43					
6925	17	56:D	43					
6926	17	57:D	1	PROCEDURE EXITTIME; (* P010B39 *)				
6927	17	57:D	1					
6928	17	57:0	0	BEGIN (* EXITTIME *)				
6929	17	57:1	0	DELWIN(BASE10, TRUE);				
6930	17	57:1	6	EXIT(SETTIME)				
6931	17	57:0	10	END; (* EXITTIME *)				
6932	17	57:0	22					
6933	17	57:0	22					
6934	17	56:0	0	BEGIN (* SETTIME *)				
6935	17	56:1	0	UNITCLEAR(1);				
6936	17	56:1	3	BASE10 := GETWIN(0, 10, 40, 3, 15, TRUE);				
6937	17	56:1	16	DISP1MSG(BASE10, 716); (* DELAY (0-99) > *)				
6938	17	56:1	23	SOLICIT(BASE10, TIMESTR, 2);				
6939	17	56:1	30	TIMEVAL := 0;				
6940	17	56:1	33	FOR BASE09 := 1 TO LENGTH(TIMESTR) DO				
6941	17	56:2	48	BEGIN				
6942	17	56:3	48	IF (TIMESTR[BASE09] >= '0') AND (TIMESTR[BASE09] <= '9') THEN				
6943	17	56:4	63	TIMEVAL := (10 * TIMEVAL) + ORD(TIMESTR[BASE09]) - ORD('0')				
6944	17	56:3	72	ELSE				

6945	17	56:4	77	EXITTIME				
6946	17	56:2	77	END;				
6947	17	56:2	86					
6948	17	56:1	86	IF (TIMEVAL > 0) AND (TIMEVAL <= 99) THEN				
6949	17	56:2	95	TIMEDLAY := TIMEVAL;				
6950	17	56:2	98					
6951	17	56:1	98	EXITTIME				
6952	17	56:1	98					
6953	17	56:0	98	END; (* SETTIME *)				
6954	17	56:0	114					
6955	17	56:0	114					
6956	17	58:D	1	PROCEDURE RUNINIT; (* P010B3A *)				
6957	17	58:D	1					
6958	17	58:0	0	BEGIN (* RUNINIT *)				
6959	17	58:1	0	CSIOWIN := GETWIN(0, 0, 40, 3, 10, FALSE);				
6960	17	58:1	14	LPIWIN := GETWIN(14, 2, 12, 5, 11, FALSE);				
6961	17	58:1	28	PROTWIN(LPIWIN, FALSE);				
6962	17	58:1	35	IF INFOWOFF.B THEN				
6963	17	58:2	39	PROTWIN(CSIOWIN, TRUE)				
6964	17	58:1	43	ELSE				
6965	17	58:2	48	UNPROWIN(CSIOWIN, TRUE);				
6966	17	58:1	55	DISP1MSG(CSIOWIN, 717); (* C)AMP S)TATUS T)IME O)FF A-W-D K *)				
6967	17	58:1	64	DRAWMAZE;				
6968	17	58:1	66	NEEDDRAW := INFOWOFF.B;				
6969	17	58:1	71	NEEDDRMZ := FALSE;				
6970	17	58:1	75	INITTURN := TRUE				
6971	17	58:1	75					
6972	17	58:0	75	END; (* RUNINIT *)				
6973	17	58:0	92					
6974	17	58:0	92					
6975	17	59:D	1	PROCEDURE DISPLPI(PROPERTY : INTEGER; (* P010B3B *)				
6976	17	59:D	2	MSG : INTEGER);				
6977	17	59:D	3					
6978	17	59:D	3	(* MSG = 719, 720, 721; LIGHT PROTECT IDENTIFY *)				
6979	17	59:D	3					
6980	17	59:0	0	BEGIN (* DISPLPI *)				
6981	17	59:1	0	IF PROPERTY > 0 THEN				
6982	17	59:2	5	DISP1LIN(LPIWIN, MSG)				
6983	17	59:1	9	ELSE				
6984	17	59:2	14	DISP1LIN(LPIWIN, 718) (* " " *)				
6985	17	59:0	20	END; (* DISPLPI *)				
6986	17	59:0	36					
6987	17	59:0	36					
6988	17	60:D	1	PROCEDURE QUITEXPD; (* P010B3C *)				
6989	17	60:D	1					
6990	17	60:0	0	BEGIN (* QUITEXPD *)				
6991	17	60:1	0	BASE10 := GETWIN(4, 10, 32, 3, 31, TRUE);				
6992	17	60:1	13	DISP1LIN(BASE10, 724); (* QUIT THIS EXPEDITION (Y/N)? *)				
6993	17	60:1	20	GETMSGTX(BASE47, 725); (* Y *)				
6994	17	60:1	28	GETMSGTX(BASEC7, 726); (* N *)				
6995	17	60:1	37					
6996	17	60:1	37	REPEAT				
6997	17	60:2	37	GETKEY;				
6998	17	60:2	40	IF (INCHAR = CHR(CRETURN)) OR (INCHAR = BASEC7[1]) THEN				
6999	17	60:3	53	BEGIN				
7000	17	60:4	53	DELWIN(BASE10, TRUE);				
7001	17	60:4	59	EXIT(QUITEXPD)				

7002	17	60:3	63	END;			
7003	17	60:1	63	UNTIL INCHAR = BASE47[1];			
7004	17	60:1	71				
7005	17	60:1	71	DELWIN(CSIOWIN, FALSE);			
7006	17	60:1	78	DELWIN(LPIWIN, FALSE);			
7007	17	60:1	85	DELWIN(BASE10, TRUE);			
7008	17	60:1	91	WITH CHARACTR[6] DO			
7009	17	60:2	99	BEGIN			
7010	17	60:3	99	INMAZE := FALSE;			
7011	17	60:3	104	LOSTXYL.LOCATION[2] := 100 * MAZEX + MAZEY;			
7012	17	60:3	118	LOSTXYL.LOCATION[3] := MAZELEV;			
7013	17	60:3	128	BASE13 := 8;			
7014	17	60:3	131	CHKWRTMZ(FALSE);			
7015	17	60:3	134	READMAZ(MAZELEV);			
7016	17	60:3	137	EXIT(RUNNER)			
7017	17	60:2	141	END;			
7018	17	60:2	141				
7019	17	60:0	141	END; (* QUITEXPD *)			
7020	17	60:0	156				
7021	17	60:0	156				
7022	17	60:0	156				
7023	17	33:0	0	BEGIN (* RUNMAIN *)			
7024	17	33:1	0	RUNINIT;			
7025	17	33:1	2				
7026	17	33:1	2	REPEAT			
7027	17	33:2	2	IF NOT INFOWOFF.B AND			
7028	17	33:2	5	((LIGHT <> 0) OR (ACMOD2 <> 0) OR (IDMONSTR <> 0)) THEN			
7029	17	33:3	22	BEGIN			
7030	17	33:4	22	IF LPIWIN^.HEAD.PRIORITY > 127 THEN			
7031	17	33:5	34	UNPROWIN(LPIWIN, TRUE);			
7032	17	33:4	41	MVCURSOR(LPIWIN, 0, 0);			
7033	17	33:4	49	DISPLPI(LIGHT, 719); (* LIGHT *)			
7034	17	33:4	56	DISPLPI(ACMOD2, 720); (* PROTECT *)			
7035	17	33:4	63	DISPLPI(IDMONSTR, 721) (* IDENTIFY *)			
7036	17	33:3	68	END			
7037	17	33:2	70	ELSE			
7038	17	33:3	72	IF LPIWIN^.HEAD.PRIORITY < 128 THEN			
7039	17	33:4	86	PROTWIN(LPIWIN, TRUE);			
7040	17	33:4	93				
7041	17	33:2	93	IF NEEDDRMZ THEN			
7042	17	33:3	98	DRAWMAZE;			
7043	17	33:3	100				
7044	17	33:2	100	IF BMVTREB THEN			
7045	17	33:3	106	MVTREBOR;			
7046	17	33:3	108				
7047	17	33:2	108	BASE09 := MAZE.SQREXTRA[MAZEX][MAZEY];			
7048	17	33:2	122				
7049	17	33:2	122	IF MAZE.SQRETYPE[BASE09] <> NORMAL THEN			
7050	17	33:3	135	IF INITTURN THEN			
7051	17	33:4	140	IF BASE2B <> 21 THEN			
7052	17	33:5	146	SPECSQAR			
7053	17	33:4	146	ELSE IF MAZE.SQRETYPE[BASE09] = STAIRS THEN			
7054	17	33:6	163	SPECSQAR			
7055	17	33:5	163	ELSE IF MAZE.SQRETYPE[BASE09] = BUTTONZ THEN			
7056	17	33:7	180	SPECSQAR;			
7057	17	33:7	182				
7058	17	33:2	182	IF MAZEX = ORACLEX THEN			

7059	17	33:3	190	IF MAZEY = ORACLEY THEN			
7060	17	33:4	198	BEGIN			
7061	17	33:5	198	BASE13 := 15;			
7062	17	33:5	201	BASE2B := 5;			
7063	17	33:5	204	DRAWSCRN(FALSE);			
7064	17	33:5	207	BASE09 := -1;			
7065	17	33:5	211	EXIT(RUNNER)			
7066	17	33:4	215	END;			
7067	17	33:4	215				
7068	17	33:2	215	IF CHARSWIN^.HEAD.PRIORITY < 128 THEN			
7069	17	33:3	227	IF NOT BASE18.B THEN			
7070	17	33:4	232	PROTWIN(CHARSWIN, FALSE);			
7071	17	33:2	237	BASE2B := 5;			
7072	17	33:2	240	NEEDDRMZ := FALSE;			
7073	17	33:2	244	IF (MAZELEV < 12) OR (MAZELEV > 14) THEN			
7074	17	33:3	253	BEGIN			
7075	17	33:4	253	IF			
7076	17	33:4	253	(RAND MOD 99 = 35)	OR		
7077	17	33:4	262	((RAND MOD 50 = 35) AND (MAZELEV = 11)) OR			
7078	17	33:4	276	(CHSTALRM = 1)	OR		
7079	17	33:4	281	FIGHTMAP[MAZEX][MAZEY]			
7080	17	33:4	291				
7081	17	33:4	291	OR			
7082	17	33:4	293				
7083	17	33:4	293	(INITTURN AND			
7084	17	33:4	296	((COMMAND = 23) OR ((COMMAND >= 1) AND (COMMAND <= 4))) AND			
7085	17	33:4	317	(MAZE.FIGHTS[MAZEX][MAZEY] = 1) AND			
7086	17	33:4	332	(RAND MOD 8 = 3))			
7087	17	33:4	342				
7088	17	33:4	342	(* 23 = ???; 1..4 = FORWARD *)			
7089	17	33:4	342	(* THERE ARE ONLY 22 COMMANDS *)			
7090	17	33:4	342				
7091	17	33:4	342	THEN			
7092	17	33:4	345				
7093	17	33:5	345	ENCOUNTR			
7094	17	33:5	345				
7095	17	33:3	345	END;			
7096	17	33:3	347				
7097	17	33:3	347	(* 6EAF *)			
7098	17	33:3	347				
7099	17	33:2	347	IF INITTURN THEN			
7100	17	33:3	352	UPDATEHP;			
7101	17	33:2	354	INITTURN := FALSE;			
7102	17	33:2	358	P010B32;			
7103	17	33:2	360	GETCMD;			
7104	17	33:2	362	IF NEEDDRAW THEN			
7105	17	33:3	367	BEGIN			
7106	17	33:4	367	DRAWSCR2(WINCHAIN);			
7107	17	33:4	371	NEEDDRAW := FALSE			
7108	17	33:3	371	END;			
7109	17	33:3	375				(* WK 8AL 4DR 6XB 2OSTCIQ *)
7110	17	33:2	375	CASE COMMAND OF			(* 1234567890123456789012 *)
7111	17	33:2	381	1, 2, 3, 4, 23: FORWRD(CHR(13));	(* WK 8		Q *)
7112	17	33:2	386	5, 6, 7, 8: DOTURN(3, CHR(12));	(* AL 4		*)
7113	17	33:2	392	9, 10, 11, 12: DOTURN(1, CHR(14));	(* DR 6		*)
7114	17	33:2	398	13, 14, 15, 16: DOTURN(2, CHR(15));	(* XB 2		*)
7115	17	33:2	404				

7116	17	33:2	404	(* 13 == FORWARD ARROW	3 == \$0B == CTRL-K *)
7117	17	33:2	404	(* 12 == LEFT ARROW	7 == \$09 == CTRL-I *)
7118	17	33:2	404	(* 14 == RIGHT ARROW	11 == \$0C == CTRL-L *)
7119	17	33:2	404	(* 15 == BACK ARROW	15 == \$0A == CTRL-J *)
7120	17	33:2	404		
7121	17	33:2	404		
7122	17	33:2	404	17: (* 'O' OFF/ON ;DISPLAY COMMAND LINE AT TOP AND	
7123	17	33:2	404	LIGHT/PROTECTION/IDENTIFY (?) AND	
7124	17	33:2	404	CHARACTER STATUS AT BOTTOM	*)
7125	17	33:3	404	BEGIN	
7126	17	33:4	404	IF INFOWOFF.B THEN	
7127	17	33:5	408	BEGIN	
7128	17	33:6	408	UNPROWIN(CSIOWIN, FALSE);	
7129	17	33:6	415	IF (ABS(LIGHT) + ABS(ACMOD2) + ABS(IDMONSTR)) > 0 THEN	
7130	17	33:7	430	UNPROWIN(LPIWIN, FALSE);	
7131	17	33:6	437	DSPPARTY;	
7132	17	33:6	439	INFOWOFF.B := FALSE;	
7133	17	33:6	442	BASE18.B := TRUE	
7134	17	33:5	442	END	
7135	17	33:4	445	ELSE	
7136	17	33:5	447	BEGIN	
7137	17	33:6	447	PROTWIN(CSIOWIN, FALSE);	
7138	17	33:6	454	PROTWIN(LPIWIN, FALSE);	
7139	17	33:6	461	PROTWIN(CHARSWIN, TRUE);	
7140	17	33:6	466	INFOWOFF.B := TRUE;	
7141	17	33:6	469	BASE18.B := FALSE	
7142	17	33:5	469	END	
7143	17	33:3	472	END;	
7144	17	33:3	474		
7145	17	33:2	474	18: (* 'S' STATUS; TOGGLE DISPLAY OF CHARACTERS AT BOTTOM *)	
7146	17	33:3	474	BEGIN	
7147	17	33:4	474	IF CHARSWIN^.HEAD.PRIORITY > 127 THEN	
7148	17	33:5	484	DSPPARTY	
7149	17	33:4	484	ELSE	
7150	17	33:5	488	PROTWIN(CHARSWIN, TRUE);	
7151	17	33:4	493	BASE18.B := CHARSWIN^.HEAD.PRIORITY < 128	
7152	17	33:3	499	END;	
7153	17	33:3	507		
7154	17	33:2	507	19: (* 'T' TIME *)	
7155	17	33:3	507	SETTIME;	
7156	17	33:3	511		
7157	17	33:2	511	20: (* 'C' CAMP *)	
7158	17	33:3	511	BEGIN	
7159	17	33:4	511	DRAWSCRN(FALSE);	
7160	17	33:4	514	BASE13 := 10;	
7161	17	33:4	517	EXIT(RUNNER)	
7162	17	33:3	521	END;	
7163	17	33:3	523		
7164	17	33:3	523	(* 21: 'I' INSPECT; IS IGNORED *)	
7165	17	33:3	523		
7166	17	33:2	523	22: (* 'Q' QUIT; QUIT THE EXPEDITION *)	
7167	17	33:3	523	QUITEXPD;	
7168	17	33:3	527		
7169	17	33:2	527	END;	
7170	17	33:2	580		
7171	17	33:1	580	UNTIL FALSE;	
7172	17	33:1	583		

7173	17	33:0	583	END; (* RUNMAIN *)				
7174	17	33:0	602					
7175	17	33:0	602					
7176	17	61:D	1	PROCEDURE RDMZINFO(VAR MP01 : TMAZEDAT); (* P010B3D *)				
7177	17	61:D	2					
7178	17	61:D	2	(* READ MAZE.INFO *)				
7179	17	61:D	2					
7180	17	61:D	2	VAR				
7181	17	61:D	2	MP02 : PACKED ARRAY[0..0] OF INTEGER;				
7182	17	61:D	3					
7183	17	61:0	0	BEGIN (* RDMZINFO *)				
7184	17	61:1	0	MAZDAT00 := MP02[-1];				
7185	17	61:1	11	UNITREAD(DRIVE1, MAZEBLK0, 248, MAZEBLCK);				
7186	17	61:1	26	UNITREAD(DRIVE1, MAZEDATA, 3004, MAZEBLCK + 1)				
7187	17	61:0	43	END; (* RDMZINFO *)				
7188	17	61:0	56					
7189	17	61:0	56					
7190	17	1:0	0	BEGIN (* RUNNER MAIN LINE P010B01 *)				
7191	17	1:0	0					
7192	17	1:1	0	IF CHARSWIN = NIL THEN				
7193	17	1:2	5	IF BLINES24 THEN				
7194	17	1:3	10	CHARSWIN := GETWIN(0, 15, 40, 9, 3, FALSE)				
7195	17	1:2	16	ELSE				
7196	17	1:3	25	CHARSWIN := GETWIN(0, 16, 40, 9, 3, FALSE);				
7197	17	1:1	38	IF BASE18.B THEN				
7198	17	1:2	42	DSPPARTY				
7199	17	1:1	42	ELSE				
7200	17	1:2	46	BEGIN				
7201	17	1:3	46	PROTWIN(CHARSWIN, TRUE);				
7202	17	1:3	51	FILLCHAR(CHARSWIN^.DATA[76], 38 * 12, ' ')				
7203	17	1:2	61	END;				
7204	17	1:1	61	MZLVORIG := MAZELEV;				
7205	17	1:1	65	READMAZ(MAZELEV);				
7206	17	1:1	68	RDMZINFO(MAZEDATA);				
7207	17	1:1	73	IF BASE80B = 1 THEN				
7208	17	1:2	80	IF MAZELEV = 2 THEN				
7209	17	1:3	85	BEGIN				
7210	17	1:4	85	MAZE.N[15][15] := OPEN;				
7211	17	1:4	97	MAZE.S[15][16] := OPEN				
7212	17	1:3	106	END;				
7213	17	1:1	108	IF BASE7F4[8 - 1] = 1 THEN				
7214	17	1:2	121	BEGIN				
7215	17	1:3	121	BASE7F4[8 - 1] := 0;				
7216	17	1:3	131	WHILE (MAZE.N[MAZEX][MAZEY] = WALL) AND				
7217	17	1:3	144	(MAZE.S[MAZEX][MAZEY] = WALL) AND				
7218	17	1:3	157	(MAZE.E[MAZEX][MAZEY] = WALL) AND				
7219	17	1:3	170	(MAZE.W[MAZEX][MAZEY] = WALL) DO				
7220	17	1:4	185	BEGIN				
7221	17	1:5	185	CASE RAND MOD 4 OF				
7222	17	1:5	194	0: MAZEX := MAZEX + 1;				
7223	17	1:5	201	1: MAZEX := MAZEX - 1;				
7224	17	1:5	208	2: MAZEY := MAZEY + 1;				
7225	17	1:5	215	3: MAZEY := MAZEY - 1;				
7226	17	1:5	222	END;				
7227	17	1:5	238					
7228	17	1:5	238	MAZEX := (MAZEX + 20) MOD 20;				
7229	17	1:5	245	MAZEY := (MAZEY + 20) MOD 20				

7230	17	1:4	248	END;				
7231	17	1:2	254	END;				
7232	17	1:2	254					
7233	17	1:2	254	(* 70E4 *)				
7234	17	1:2	254					
7235	17	1:1	254	IF BASE37 THEN				
7236	17	1:2	258	BEGIN				
7237	17	1:3	258	WHILE MAZE.SQRETYPE[MAZE.SQREXTRA[MAZEX][MAZEY]] <> NORMAL DO				
7238	17	1:4	280	BEGIN				
7239	17	1:5	280	MAZEX := RAND MOD (19 + 1);				
7240	17	1:5	291	MAZEY := RAND MOD (19 + 1)				
7241	17	1:4	299	END;				
7242	17	1:2	304	END;				
7243	17	1:2	304					
7244	17	1:2	304	(* 7116 *)				
7245	17	1:2	304					
7246	17	1:1	304	ORACLEX := (15 + MAZEX + (RAND MOD 10)) MOD 20;				
7247	17	1:1	320	ORACLEY := (15 + MAZEY + (RAND MOD 10)) MOD 20;				
7248	17	1:1	336	BASE37 := FALSE;				
7249	17	1:1	339	CLROOMFG(MAZEX, MAZEY);				
7250	17	1:1	343		(* 1234567890123456789012 *)			
7251	17	1:1	343	GETMSGTX(CHOICES, 722);	(* WK 8AL 4DR 6XB 2OSTCIQ *)			
7252	17	1:1	352					
7253	17	1:1	352		(* C)AMP S)TATUS T)IME O)FF A-W-D K, ETC. *)			
7254	17	1:1	352					
7255	17	1:1	352		(* 3 == <0B> UP ARROW OR CTRL-K *)			
7256	17	1:1	352		(* 7 == <09> TAB OR CTRL-I *)			
7257	17	1:1	352		(* 11 == <0C> CTRL-L *)			
7258	17	1:1	352		(* 15 == <0A> DOWN ARROW OR CTRL-J *)			
7259	17	1:1	352	COMMAND := -1;				
7260	17	1:1	357	BSPIN := FALSE;				
7261	17	1:1	360	SPINCNT := 0;				
7262	17	1:1	364					
7263	17	1:1	364	REPEAT				
7264	17	1:2	364	RUNMAIN				
7265	17	1:1	364	UNTIL FALSE				
7266	17	1:1	366					
7267	17	1:0	366	END; (* P010B01 *)				
7268	17	1:0	390					
7269	17	1:0	390	(*I WIZ4B:RUNNER3 *)				
7270	17	1:0	390					
7270	17	1:0	390	(*I WIZ4B:DOCOPY *)				
7271	17	1:0	390					
7272	18	1:D	1	SEGMENT PROCEDURE DOCOPY;	(* P010C01 *)			
7273	18	1:D	1					
7274	18	1:D	1	VAR				
7275	18	1:D	1	DCMP01 : INTEGER;				
7276	18	1:D	2	MP02 : INTEGER;				
7277	18	1:D	3	DCTEMP : INTEGER;				
7278	18	1:D	4	CHUNKCNT : INTEGER;				
7279	18	1:D	5	IOCHUNKS : INTEGER;				
7280	18	1:D	6	RETRYCNT : INTEGER;				
7281	18	1:D	7	CURRBLOCK : INTEGER;				
7282	18	1:D	8	UNUSED1 : INTEGER;				
7283	18	1:D	9	UNUSED2 : INTEGER;				
7284	18	1:D	10	AUXBUFN : INTEGER;				
7285	18	1:D	11	CACHBUFN : INTEGER;				

7286	18	1:D	12	MEMBLCKS : INTEGER;				
7287	18	1:D	13	TOTCACHE : INTEGER;				
7288	18	1:D	14	DSKBLCKS : INTEGER;				
7289	18	1:D	15	DRIVECNT : INTEGER;				
7290	18	1:D	16	MEMBUFFX : PINT;				
7291	18	1:D	17	MEMBUFF : PINT;				
7292	18	1:D	18	CACHEPTR : TCACHEP;				
7293	18	1:D	19	MESSAGES : ARRAY[0..17] OF STRING;				
7294	18	1:D	757					
7295	18	1:D	757	INSERTA : STRING;				
7296	18	1:D	798	CYCLEMSG : STRING;				
7297	18	1:D	839	FORMTERR : STRING;				
7298	18	1:D	880	NOTBLANK : STRING;				
7299	18	1:D	921	NOTMASTR : STRING;				
7300	18	1:D	962	UWINOUT : INTEGER;				
7301	18	1:D	963	UWINOUT2 : INTEGER;				
7302	18	1:D	964					
7303	18	1:D	964					
7304	18	2:D	1	PROCEDURE CLRRECTA;		(* P010C02 *)		
7305	18	2:D	1					
7306	18	2:0	0	BEGIN				
7307	18	2:1	0	CLRRECT(MAINWIN, 0, 10, 36, 4);				
7308	18	2:1	9	MVCURSOR(MAINWIN, 0, 10)				
7309	18	2:0	13	END;				
7310	18	2:0	28					
7311	18	2:0	28					
7312	18	3:D	1	PROCEDURE INSERTDK(MSGNUM : INTEGER;		(* P010C03 *)		
7313	18	3:D	2	DRIVE12 : INTEGER;				
7314	18	3:D	3	DEVICE45 : INTEGER;				
7315	18	3:D	4	CHECK012 : INTEGER);				
7316	18	3:D	5					
7317	18	3:D	5	(* MSGNUM IS 2004: INSERT MASTER DISKETTE INTO DRIVE ^.				
7318	18	3:D	5	MSGNUM IS 2005: INSERT BLANK DISKETTE INTO DRIVE ^.				
7319	18	3:D	5					
7320	18	3:D	5	CHECK012: 0 = DON'T CHECK DISKETTE IN DRIVE				
7321	18	3:D	5	1 = CHECK FOR "BLANK" IN DRIVE				
7322	18	3:D	5	2 = CHECK FOR "MASTER" IN DRIVE		*)		
7323	18	3:D	5					
7324	18	4:D	3	FUNCTION CHKDSKID : BOOLEAN;				
7325	18	4:D	3					
7326	18	4:D	3	(* RETURNS "TRUE" IF DISK # IS 1 TO 11 *)				
7327	18	4:D	3					
7328	18	4:0	0	BEGIN (* CHKDSKID *)				
7329	18	4:1	0	UNITREAD(DEVICE45, BASE55B, 512, 1, 0); (* GET DISK # FROM BLOCK #1 *)				
7330	18	4:1	14	MOVELEFT(BASE55B[510], DCTEMP, 2); (* DISK # *)				
7331	18	4:1	27	CHKDSKID := (DCTEMP > 0) AND (DCTEMP < 12)				
7332	18	4:0	37	END; (* CHKDSKID *)				
7333	18	4:0	52					
7334	18	4:0	52					
7335	18	3:0	0	BEGIN (* INSERTDK *)				
7336	18	3:0	0					
7337	18	3:1	0	REPEAT				
7338	18	3:1	0					
7339	18	3:2	0	CLRRECTA;				
7340	18	3:2	2	BASE47 := MESSAGES[MSGNUM - 2000];				
7341	18	3:2	16	COPYSTR(BASEC7, MESSAGES[2003 - 2000], DRIVE12, 1);				
7342	18	3:2	36			(* DEST, SRC, F, CNT *)		

7343	18	3:2	36	(* 2003: 12 *)			
7344	18	3:2	36	(* IF DRIVE12 = 1 THEN BASEC7 := '1'; *)			
7345	18	3:2	36	(* IF DRIVE12 = 2 THEN BASEC7 := '2'; *)			
7346	18	3:2	36				
7347	18	3:2	36	INSERTST(BASEC7, BASE47);			
7348	18	3:2	44	CENTSTR(MAINWIN, BASE47);			
7349	18	3:2	51	CENTSTR(MAINWIN, MESSAGES[2017 - 2000]); (* THEN PRESS ~ *)			
7350	18	3:2	68	GETCR;			
7351	18	3:2	71	CLRRECTA;			
7352	18	3:2	73	IF CHECK012 = 0 THEN			
7353	18	3:3	78	EXIT(INSERTDK)			
7354	18	3:2	82	ELSE			
7355	18	3:3	84	BEGIN			
7356	18	3:4	84	IF CHECK012 = 2 THEN			
7357	18	3:5	89	BEGIN			
7358	18	3:6	89	IF CHKDSKID THEN			
7359	18	3:7	95	EXIT(INSERTDK)			
7360	18	3:6	99	ELSE			
7361	18	3:7	101	CENTSTR(MAINWIN, NOTMASTR)			
7362	18	3:5	107	END			
7363	18	3:4	110	ELSE			
7364	18	3:5	112	BEGIN			
7365	18	3:6	112	IF CHKDSKID THEN			
7366	18	3:7	118	CENTSTR(MAINWIN, NOTBLANK)			
7367	18	3:6	124	ELSE			
7368	18	3:7	129	EXIT(INSERTDK)			
7369	18	3:5	133	END			
7370	18	3:3	133	END;			
7371	18	3:3	133				
7372	18	3:2	133	GETCR;			
7373	18	3:2	136				
7374	18	3:1	136	UNTIL FALSE;			
7375	18	3:1	139				
7376	18	3:0	139	END; (* INSERTDK *)			
7377	18	3:0	154				
7378	18	3:0	154				
7379	18	5:D	1	PROCEDURE CENTMSG(MSGI : INTEGER); (* P010C05 *)			
7380	18	5:D	2				
7381	18	5:0	0	BEGIN			
7382	18	5:1	0	IF MSGI = 2030 THEN (* FORMAT ERROR! *)			
7383	18	5:2	7	BEGIN			
7384	18	5:3	7	CLRRECTA;			
7385	18	5:3	9	CENTSTR(MAINWIN, FORMTERR)			
7386	18	5:2	15	END			
7387	18	5:1	18	ELSE IF MSGI = 2032 THEN (* INSERT SCENARIO DISKETTE "A" *)			
7388	18	5:3	27	BEGIN			
7389	18	5:4	27	CLRRECTA;			
7390	18	5:4	29	CENTSTR(MAINWIN, INSERTA)			
7391	18	5:3	35	END			
7392	18	5:2	38	ELSE (* ALL OTHER MESSAGES *)			
7393	18	5:3	40	BEGIN			
7394	18	5:4	40	CLRRECTA;			
7395	18	5:4	42	CENTSTR(MAINWIN, MESSAGES[MSGI - 2000])			
7396	18	5:3	54	END;			
7397	18	5:0	57	END;			
7398	18	5:0	70				
7399	18	5:0	70				

7400	18	6:D	1	PROCEDURE EXITDC; (* P010C06 *)			
7401	18	6:D	1				
7402	18	6:0	0	BEGIN			
7403	18	6:1	0	IF DRIVECNT = 1 THEN			
7404	18	6:2	7	INSERTDK(2004, 1, 4, 2); (* "INSERT MASTER DISKETTE INTO DRIVE ^" *)			
7405	18	6:2	15	(* DRIVE 1, DEVICE 4, CHECK FOR MASTER *)			
7406	18	6:1	15	RELEASE(MEMBUFF);			
7407	18	6:1	20	DCTEMP := 1;			
7408	18	6:1	24	UNITWRITE(BASE12, DCTEMP, 22, DCTEMP);			
7409	18	6:1	37	IF BRELOC THEN			
7410	18	6:2	42	BEGIN			
7411	18	6:3	42	BASE09 := 1;			
7412	18	6:3	45	UNITWRITE(BASE12, BASE09, 31, BASE09)			
7413	18	6:2	55	END;			
7414	18	6:1	55	BASE09 := 1;			
7415	18	6:1	58	EXIT(DOCOPY)			
7416	18	6:0	62	END;			
7417	18	6:0	74				
7418	18	6:0	74				
7419	18	7:D	3	FUNCTION NOERROR(MSGNUM : INTEGER;			
7420	18	7:D	4	IOSTAT : INTEGER) : BOOLEAN; (* P010C07 *)			
7421	18	7:D	5				
7422	18	7:0	0	BEGIN			
7423	18	7:1	0	NOERROR := TRUE;			
7424	18	7:1	3	IF IOSTAT = 0 THEN			
7425	18	7:2	8	BEGIN			
7426	18	7:3	8	RETRYCNT := 10; (* RESET RETRYCNT ON A GOOD I/O *)			
7427	18	7:3	12	EXIT(NOERROR)			
7428	18	7:2	16	END;			
7429	18	7:1	16	NOERROR := FALSE;			
7430	18	7:1	19	RETRYCNT := RETRYCNT - 1;			
7431	18	7:1	27	IF RETRYCNT = 0 THEN			
7432	18	7:2	34	BEGIN			
7433	18	7:3	34	CENTMSG(MSGNUM);			
7434	18	7:3	37	CENTSTR(MAINWIN, MESSAGES[2011 - 2000]); (* MAKE HAS FAILED *)			
7435	18	7:3	54	GETCR;			
7436	18	7:3	57	EXITDC			
7437	18	7:2	57	END			
7438	18	7:0	59	END;			
7439	18	7:0	72				
7440	18	7:0	72				
7441	18	8:D	1	PROCEDURE DSPCYCLE; (* P010C08 *)			
7442	18	8:D	1				
7443	18	8:D	1	(* # OF ^ CYCLES COMPLETED *)			
7444	18	8:D	1	(* <CHUNKCNT> OF <IOCHUNKS> CYCLES COMPLETED *)			
7445	18	8:D	1				
7446	18	8:0	0	BEGIN			
7447	18	8:1	0	BASE47 := CYCLEMSG;			
7448	18	8:1	8	INT2STR(CHUNKCNT, BASEC7);			
7449	18	8:1	17	INSERT2(BASEC7, BASE47, '#');			
7450	18	8:1	26	INT2STR(IOCHUNKS, BASEC7);			
7451	18	8:1	35	INSERT2(BASEC7, BASE47, '^');			
7452	18	8:1	44	MVCURSOR(MAINWIN, 0, 2);			
7453	18	8:1	51	CENTSTR(MAINWIN, BASE47);			
7454	18	8:1	58	CHUNKCNT := CHUNKCNT + 1			
7455	18	8:0	61	END;			
7456	18	8:0	78				

7457	18	8:0	78					
7458	18	9:D	1	PROCEDURE CACHEMAG;	(* P010C09 *)			
7459	18	9:D	1					
7460	18	9:D	1	(* CACHE MAGIC *)				
7461	18	9:D	1					
7462	18	9:0	0	BEGIN				
7463	18	9:1	0	IF BCACHE THEN				
7464	18	9:2	5	BEGIN				
7465	18	9:3	5	UWINOUT := -1;				
7466	18	9:3	11	UNITWRITE(BASE12, UWINOUT, 25, 0);				
7467	18	9:3	23	UWINOUT := -3;				
7468	18	9:3	29	UNITWRITE(BASE12, UWINOUT, 25, 0)				
7469	18	9:2	41	END;				
7470	18	9:0	41	END;				
7471	18	9:0	54					
7472	18	9:0	54					
7473	18	10:D	1	PROCEDURE P010C0A;				
7474	18	10:D	1					
7475	18	10:0	0	BEGIN				
7476	18	10:1	0	CLEARWIN(MAINWIN, TRUE);				
7477	18	10:1	6	FOR DCTEMP := 2000 TO 2017 DO				
7478	18	10:2	24	GETMSGTX(MESSAGES[DCTEMP - 2000], DCTEMP);				
7479	18	10:2	52					
7480	18	10:2	52	(*				
7481	18	10:2	52	2000: MAKE SCENARIO DISKETTE:				
7482	18	10:2	52	2001: DO YOU HAVE 1) OR 2) DISK DRIVES ?				
7483	18	10:2	52	2002: (PRESS (ESC) TO EXIT)				
7484	18	10:2	52	2003: 12				
7485	18	10:2	52	2004: INSERT MASTER DISKETTE INTO DRIVE ^.				
7486	18	10:2	52	2005: INSERT BLANK DISKETTE INTO DRIVE ^.				
7487	18	10:2	52	2006: READING MASTER DISKETTE...				
7488	18	10:2	52	2007: WRITING TO BLANK DISKETTE...				
7489	18	10:2	52	2008: FORMATTING BLANK DISKETTE...				
7490	18	10:2	52	2009: READ ERROR!				
7491	18	10:2	52	2010: WRITE ERROR!				
7492	18	10:2	52	2011: "MAKE" HAS FAILED - PRESS ~				
7493	18	10:2	52	2012: SCENARIO DISKETTE MADE - PRESS ~				
7494	18	10:2	52	2013: THE DISKETTE YOU INSERTE HAS DATA				
7495	18	10:2	52	2014: ON IT. IF YOU USE IT, THE DATA				
7496	18	10:2	52	2015: WILL BE ERASED! USE IT (Y/N)?				
7497	18	10:2	52	2016: YN				
7498	18	10:2	52	2017: THEN PRESS ~				
7499	18	10:2	52	*)				
7500	18	10:2	52					
7501	18	10:1	52	GETMSGTX(NOTMASTR, 2028);	(* THAT IS NOT A MASTER DISKETTE-PRESS ~ *)			
7502	18	10:1	62	GETMSGTX(NOTBLANK, 2029);	(* THAT IS NOT A BLANK DISKETTE-PRESS ~ *)			
7503	18	10:1	72	GETMSGTX(FORMTERR, 2030);	(* FORMAT ERROR! *)			
7504	18	10:1	82	GETMSGTX(CYCLEMSG, 2031);	(* # OF ^ CYCLES COMPLETED *)			
7505	18	10:1	92	GETMSGTX(INSERTA, 2032);	(* INSERT SCENARIO DISKETTE "A"-PRESS ~ *)			
7506	18	10:1	102					
7507	18	10:1	102	IF BRELOC THEN				
7508	18	10:2	107	BEGIN				
7509	18	10:2	107					
7510	18	10:2	107	(* RESET TO 'NORMAL' DISK I/O AND NOT 'VIRTUAL' DISK I/O *)				
7511	18	10:2	107					
7512	18	10:3	107	BASE09 := 2;				
7513	18	10:3	110	UNITWRITE(BASE12, BASE09, 31, BASE09)				

7514	18	10:2	120	END;				
7515	18	10:1	120	CENTSTR(MAINWIN, MESSAGES[2000-2000]); (* MAKE SCENARIO DISK *)				
7516	18	10:1	137					
7517	18	10:1	137	(* RESERVE A LARGE CHUNK OF MEMORY *)				
7518	18	10:1	137	TOTCACHE := (MEMAVAIL - 2000) DIV 256; (* MEMAVAIL IS IN 'WORDS' *)				
7519	18	10:1	150	IF TOTCACHE > 63 THEN				(* TOTCACHE IS IN 'BLOCKS' *)
7520	18	10:2	157	TOTCACHE := 63;				
7521	18	10:1	161	MARK(MEMBUFF);				
7522	18	10:1	166	MOVELEFT(MEMBUFF, BASE09, 2);				
7523	18	10:1	176	BASE09 := BASE09 + 512 * TOTCACHE;				(* BASE09 IS IN 'BYTES' *)
7524	18	10:1	187	MOVELEFT(BASE09, MEMBUFFX, 2);				
7525	18	10:1	197	RELEASE(MEMBUFFX);				
7526	18	10:1	202					
7527	18	10:1	202	(* CLEAR THE DISK CACHE BUFFERS *)				
7528	18	10:1	202	CACHBUFN := 0;				
7529	18	10:1	206	CACHEPTR := DSKCACHF;				
7530	18	10:1	211	WHILE CACHEPTR <> NIL DO				
7531	18	10:2	218	BEGIN				
7532	18	10:3	218	CACHBUFN := CACHBUFN + 1;				
7533	18	10:3	226	CACHEPTR^.KEY := -32767;				
7534	18	10:3	234	CACHEPTR := CACHEPTR^.FORWRD				
7535	18	10:2	237	END;				
7536	18	10:2	243					
7537	18	10:1	243	CACHEMAG; (* CACHE MAGIC *)				
7538	18	10:1	245					
7539	18	10:1	245	IF BCACHE THEN				
7540	18	10:2	250	BEGIN				
7541	18	10:2	250					
7542	18	10:2	250	(* MORE CACHE MAGIC *)				
7543	18	10:2	250					
7544	18	10:3	250	UWINOUT := 0;				
7545	18	10:3	255	UWINOUT2 := 0;				
7546	18	10:3	260	UNITWRITE(BASE12, UWINOUT, 25, 0); (* MEM AVAIL IN AUX MEMORY *)				
7547	18	10:3	272	AUXBUFN := UWINOUT				
7548	18	10:2	272	END				
7549	18	10:1	279	ELSE				
7550	18	10:2	281	AUXBUFN := 0;				
7551	18	10:2	285					
7552	18	10:1	285	MEMBLCKS := TOTCACHE;				
7553	18	10:1	291	TOTCACHE := TOTCACHE + CACHBUFN + AUXBUFN;				
7554	18	10:1	305	MVCURSOR(MAINWIN, 0, 10);				
7555	18	10:1	312	CENTSTR(MAINWIN, MESSAGES[2001 - 2000]); (* '1' OR '2' *)				
7556	18	10:1	329	CENTSTR(MAINWIN, MESSAGES[2002 - 2000]); (* PRESS (ESC) *)				
7557	18	10:1	346					
7558	18	10:1	346	REPEAT				
7559	18	10:2	346	GETKEY;				
7560	18	10:2	349	IF INCHAR = CHR(27) THEN				
7561	18	10:3	354	EXITDC;				
7562	18	10:1	356	UNTIL (INCHAR = '1') OR (INCHAR = '2');				
7563	18	10:1	365					
7564	18	10:1	365	DRIVECNT := ORD(INCHAR) - ORD('0');				
7565	18	10:1	371	DCTEMP := 0;				
7566	18	10:1	375	UNITWRITE(BASE12, DCTEMP, 22, DCTEMP);				
7567	18	10:1	388					
7568	18	10:1	388	IF DRIVECNT = 2 THEN				
7569	18	10:2	395	BEGIN				
7570	18	10:3	395	INSERTDK(2004, 1, 4, 2); (* "INSERT MASTER IN DRIVE ^" *)				

	7571	18	10:3	403		(* DRIVE 1, DEVICE 4, CHECK 4 MASTER *)			
	7572	18	10:3	403	INSERTDK(2005, 2, 5, 0)	(* "INSERT BLANK IN DRIVE ^" *)			
	7573	18	10:3	409		(* DRIVE 2, DEVICE 5, NO DISK CHECK *)			
	7574	18	10:2	409	END				
	7575	18	10:1	411	ELSE				
	7576	18	10:2	413	INSERTDK(2005, 1, 4, 0);	(* "INSERT BLANK IN DRIVE ^" *)			
	7577	18	10:2	421		(* DRIVE 1, DEVICE 4, NO DISK CHECK *)			
	7578	18	10:2	421					
	7579	18	10:2	421	(* IF DRIVECNT = 2, THEN DISK IN DRIVE 2 HAS NOT BEEN CHECKED *)				
	7580	18	10:2	421					
	7581	18	10:1	421	UNITREAD(3 + DRIVECNT, MEMBUFF^, 512, 0);				
	7582	18	10:1	437	IF IORESULT = 0 THEN				
	7583	18	10:2	443	BEGIN				
	7584	18	10:3	443	CLRRECTA;				
	7585	18	10:3	445	CENTSTR(MAINWIN, MESSAGES[2013 - 2000]);	(* DATA ON DISK *)			
	7586	18	10:3	462	CENTSTR(MAINWIN, MESSAGES[2014 - 2000]);	(* USE IT? *)			
	7587	18	10:3	479	CENTSTR(MAINWIN, MESSAGES[2015 - 2000]);	(* Y/N *)			
	7588	18	10:3	496					
	7589	18	10:3	496	REPEAT				
	7590	18	10:4	496	GETKEY;				
	7591	18	10:4	499	IF INCHAR = MESSAGES[2016 - 2000][2] THEN	(* N *)			
	7592	18	10:5	517	EXITDC				
	7593	18	10:3	517	UNTIL INCHAR = MESSAGES[2016 - 2000][1]	(* Y *)			
	7594	18	10:3	533					
	7595	18	10:2	533	END;				
	7596	18	10:1	537	CENTMSG(2008)	(* FORMATTING BLANK DISK *)			
	7597	18	10:0	540	END;				
	7598	18	10:0	562					
	7599	18	10:0	562					
	7600	18	11:D	1	PROCEDURE DO1CYCLE(MP02 : INTEGER; MP01 : INTEGER);	(* P010C0B *)			
	7601	18	11:D	3					
	7602	18	11:D	3	(* MP02 = CURRBLOCK; MP01 := TOTCACHE *)				
	7603	18	11:D	3					
	7604	18	11:D	3					
	7605	18	11:D	3					
	7606	18	12:D	1	PROCEDURE READMAST(MP02 : INTEGER;	(* P010C0C *)			
	7607	18	12:D	2	MP01 : INTEGER);				
	7608	18	12:D	3					
	7609	18	12:D	3	(* MP02 = CURRBLOCK; MP01 = TOTCACHE	*)			
	7610	18	12:D	3	(*	= AMOUNT OF I/O NEEDED	*)		
	7611	18	12:D	3	(*	(SOMETIMES LESS THAN TOTCACHE *)			
	7612	18	12:D	3					
	7613	18	12:D	3	VAR				
	7614	18	12:D	3	MP03 : INTEGER;				
	7615	18	12:D	4	MP04 : INTEGER;	(* AMOUNT OF AUX MEMORY NEEDED FOR I/O *)			
	7616	18	12:D	5					
	7617	18	12:0	0	BEGIN (* READMAST *)				
	7618	18	12:1	0	IF BCACHE THEN				
	7619	18	12:2	5	BEGIN				
	7620	18	12:3	5	CACHEMAG;				
	7621	18	12:3	7	IF AUXBUFN > MP01 THEN				
	7622	18	12:3	14					
	7623	18	12:3	14	(* IF AMOUNT OF I/O IS LESS THAN AUXBUFN SET MP04				
	7624	18	12:3	14	TO THE SMALLER AMOUNT TO INDICATE TOTAL				
	7625	18	12:3	14	AMOUNT OF AUX MEMORY NEEDED FOR I/O	*)			
	7626	18	12:3	14					
	7627	18	12:4	14	MP04 := MP01				

7628	18	12:3	14	ELSE				
7629	18	12:4	19	MP04 := AUXBUFN;	(* USE ALL OF AUX MEMORY *)			
7630	18	12:3	24	UWINOUT := MP02;				
7631	18	12:3	29	UWINOUT2 := MP04;				
7632	18	12:3	34	UNITWRITE(BASE12, UWINOUT, 25, 0);				
7633	18	12:3	46	MP02 := MP02 + MP04;				
7634	18	12:3	51	MP01 := MP01 - MP04				
7635	18	12:2	52	END;				
7636	18	12:1	56	IF MP01 = 0 THEN				
7637	18	12:2	61	EXIT(READMAST);				
7638	18	12:1	65	IF MEMBLCKS > MP01 THEN				
7639	18	12:2	72	MP04 := MP01				
7640	18	12:1	72	ELSE				
7641	18	12:2	77	MP04 := MEMBLCKS;				
7642	18	12:2	82					
7643	18	12:1	82	REPEAT				
7644	18	12:2	82	UNITREAD(4, MEMBUFF^, 512 * MP04, MP02)				
7645	18	12:1	96	UNTIL NOERROR(2009, IORESULT);	(* READ ERROR! *)			
7646	18	12:1	107					
7647	18	12:1	107	MP02 := MP02 + MP04;				
7648	18	12:1	112	MP01 := MP01 - MP04;				
7649	18	12:1	117	IF MP01 = 0 THEN				
7650	18	12:2	122	EXIT(READMAST);				
7651	18	12:1	126	IF CACHBUFN > MP01 THEN				
7652	18	12:2	133	MP04 := MP01				
7653	18	12:1	133	ELSE				
7654	18	12:2	138	MP04 := CACHBUFN;				
7655	18	12:1	143	CACHEPTR := DSKCACHF;				
7656	18	12:1	148					
7657	18	12:1	148	FOR MP03 := 0 TO MP04 - 1 DO				
7658	18	12:2	161	BEGIN				
7659	18	12:3	161	REPEAT				
7660	18	12:4	161	UNITREAD(4, CACHEPTR^.DATA, 512, MP02 + MP03);				
7661	18	12:3	177	UNTIL NOERROR(2009, IORESULT);	(* READ ERROR! *)			
7662	18	12:3	188	CACHEPTR := CACHEPTR^.FORWRD				
7663	18	12:2	191	END;				
7664	18	12:2	202					
7665	18	12:0	202	END; (* READMAST *)				
7666	18	12:0	220					
7667	18	12:0	220					
7668	18	13:D	1	PROCEDURE WRITBLNK(MP02 : INTEGER;				
7669	18	13:D	2	MP01 : INTEGER);				
7670	18	13:D	3					
7671	18	13:D	3	VAR				
7672	18	13:D	3	MP03 : INTEGER;				
7673	18	13:D	4	MP04 : INTEGER;				
7674	18	13:D	5					
7675	18	13:0	0	BEGIN (* WRITBLNK *)				
7676	18	13:1	0	IF BCACHE THEN				
7677	18	13:2	5	BEGIN				
7678	18	13:3	5	IF AUXBUFN > MP01 THEN				
7679	18	13:4	12	MP04 := MP01				
7680	18	13:3	12	ELSE				
7681	18	13:4	17	MP04 := AUXBUFN;				
7682	18	13:3	22	UWINOUT := -2;				
7683	18	13:3	28	UNITWRITE(BASE12, UWINOUT, 25, 0);				
7684	18	13:3	40	FOR MP03 := 0 TO MP04 - 1 DO				

7685	18	13:4	53	BEGIN				
7686	18	13:5	53	REPEAT				
7687	18	13:6	53	UNITREAD(4, BASE55B, 512, MP02 + MP03);				
7688	18	13:5	67	UNTIL NOERROR(2009, IORESULT); (* READ ERROR *)				
7689	18	13:5	78					
7690	18	13:5	78	REPEAT				
7691	18	13:6	78	UNITWRITE(3 + DRIVECNT, BASE55B, 512, MP02 + MP03);				
7692	18	13:5	96	UNTIL NOERROR(2009, IORESULT) (* READ ERROR *)				
7693	18	13:4	101	END;				
7694	18	13:4	114					
7695	18	13:3	114	CACHEMAG;				
7696	18	13:3	116	MP02 := MP02 + MP04;				
7697	18	13:3	121	MP01 := MP01 - MP04				
7698	18	13:2	122	END; (* BCACHE *)				
7699	18	13:2	126					
7700	18	13:2	126	(* 55D2 *)				
7701	18	13:2	126					
7702	18	13:1	126	IF MP01 = 0 THEN				
7703	18	13:2	131	EXIT(WRITBLNK);				
7704	18	13:1	135	IF MEMBLCKS > MP01 THEN				
7705	18	13:2	142	MP04 := MP01				
7706	18	13:1	142	ELSE				
7707	18	13:2	147	MP04 := MEMBLCKS;				
7708	18	13:2	152					
7709	18	13:1	152	REPEAT				
7710	18	13:2	152	UNITWRITE(3 + DRIVECNT, MEMBUFF^, 512 * MP04, MP02)				
7711	18	13:1	170	UNTIL NOERROR(2009, IORESULT); (* READ ERROR *)				
7712	18	13:1	181					
7713	18	13:1	181	MP02 := MP02 + MP04;				
7714	18	13:1	186	MP01 := MP01 - MP04;				
7715	18	13:1	191	IF MP01 = 0 THEN				
7716	18	13:2	196	EXIT(WRITBLNK);				
7717	18	13:1	200	IF CACHBUFN > MP01 THEN				
7718	18	13:2	207	MP04 := MP01				
7719	18	13:1	207	ELSE				
7720	18	13:2	212	MP04 := CACHBUFN;				
7721	18	13:1	217	CACHEPTR := DSKCACHF;				
7722	18	13:1	222	FOR MP03 := 0 TO MP04 - 1 DO				
7723	18	13:2	235	BEGIN				
7724	18	13:3	235	REPEAT				
7725	18	13:4	235	UNITWRITE(3 + DRIVECNT, CACHEPTR^.DATA, 512, MP02 + MP03);				
7726	18	13:3	255	UNTIL NOERROR(2009, IORESULT); (* READ ERROR *)				
7727	18	13:3	266	CACHEPTR := CACHEPTR^.FORWRD				
7728	18	13:2	269	END				
7729	18	13:0	273	END; (* WRITBLNK *)				
7730	18	13:0	304					
7731	18	13:0	304					
7732	18	11:0	0	BEGIN (* DOLCYCLE *)				
7733	18	11:1	0	IF DRIVECNT = 1 THEN				
7734	18	11:2	7	INSERTDK(2004, 1, 4, 2); (* "INSERT MASTER INTO DRIVE ^" *)				
7735	18	11:2	15	(* DRIVE 1, DEVICE 4, CHECK 4 MASTER *)				
7736	18	11:1	15	CENTMSG(2006); (* READING MASTER *)				
7737	18	11:1	20	READMAST(MP02, MP01);				
7738	18	11:1	24	IF DRIVECNT = 1 THEN				
7739	18	11:2	31	INSERTDK(2005, 1, 4, 1); (* "INSERT BLANK INTO DRIVE ^" *)				
7740	18	11:2	39	(* DRIVE 1, DEVICE 4, CHECK 4 BLANK *)				
7741	18	11:1	39	CENTMSG(2007); (* WRITING BLANK *)				

7742	18	11:1	44	WRITBLNK(MP02, MP01)				
7743	18	11:0	46	END; (* DO1CYCLE *)				
7744	18	11:0	60					
7745	18	11:0	60					
7746	18	1:0	0	BEGIN (* DOCOPY, P010C01 *)				
7747	18	1:0	0					
7748	18	1:1	0	CLEARWIN(MAINWIN, TRUE);				
7749	18	1:1	6	DCTEMP := 2050;	(* MAKING A SCENARIO DISK...*)			
7750	18	1:1	11		(* BEFORE YOU PLAY THE GAME...*)			
7751	18	1:1	11	GETMSGTX(BASE47, DCTEMP);				
7752	18	1:1	17	WHILE BASE47 <> '**ERR**' DO	(* DO 16 LINES OF MESSAGES *)			
7753	18	1:2	33	BEGIN				
7754	18	1:3	33	CENTSTR(MAINWIN, BASE47);				
7755	18	1:3	40	DCTEMP := DCTEMP + 1;				
7756	18	1:3	45	GETMSGTX(BASE47, DCTEMP)				
7757	18	1:2	48	END;				
7758	18	1:2	53					
7759	18	1:1	53	GETCR;				
7760	18	1:1	56	P010C0A;				
7761	18	1:1	58	DCTEMP := 3 + DRIVECNT;				
7762	18	1:1	63	RETRYCNT := 1;				
7763	18	1:1	66					
7764	18	1:1	66	REPEAT				
7765	18	1:2	66	UNITWRITE(BASE12, MEMBUFF^, 20, DCTEMP)				
7766	18	1:1	76	UNTIL NOERROR(2030, IORESULT);	(* FORMAT ERROR! (??) *)			
7767	18	1:1	87					
7768	18	1:1	87	UNITREAD(BASE12, DSKBLCKS, 21, 0);	(* GET # OF BLOCKS PER DISK 280 *)			
7769	18	1:1	97	CURRBLCK := 6; (* START WITH BLOCK #6 *)				
7770	18	1:1	100	CHUNKCNT := 0;				
7771	18	1:1	103	IOCHUNKS := 1 + (DSKBLCKS - 6) DIV TOTCACHE;				
7772	18	1:1	112	IF ((DSKBLCKS - 6) MOD TOTCACHE) <> 0 THEN				
7773	18	1:2	121	IOCHUNKS := IOCHUNKS + 1;				
7774	18	1:2	126					
7775	18	1:1	126	WHILE CURRBLCK < DSKBLCKS DO				
7776	18	1:2	131	BEGIN				
7777	18	1:3	131	DSPCYCLE;				
7778	18	1:3	133	IF CURRBLCK + TOTCACHE <= DSKBLCKS THEN				
7779	18	1:4	140	DO1CYCLE(CURRBLCK, TOTCACHE)	(* DO AS MUCH AS POSSIBLE *)			
7780	18	1:3	142	ELSE				
7781	18	1:4	146	DO1CYCLE(CURRBLCK, DSKBLCKS - CURRBLCK);	(* FINISH LAST PARTIAL *)			
7782	18	1:3	152	CURRBLCK := CURRBLCK + TOTCACHE				
7783	18	1:2	153	END;				
7784	18	1:2	159					
7785	18	1:1	159	DSPCYCLE;				
7786	18	1:1	161	DO1CYCLE(0, 6);				
7787	18	1:1	165	DSPCYCLE;				
7788	18	1:1	167	CENTMSG(2032);	(* INSERT SCENARIO DISKETTE "A" *)			
7789	18	1:1	172	GETCR;				
7790	18	1:1	175	EXITDC				
7791	18	1:0	175	END; (* DOCOPY, P010C01 *)				
7792	18	1:0	196					
7793	18	1:0	196	(*I WIZ4B:DOCOPY *)				
7793	18	1:0	196	(*I WIZ4B:DOCACHE *)				
7794	18	1:0	196					
7795	19	1:D	1	SEGMENT PROCEDURE DOCACHE;	(* P010D01 *)			
7796	19	1:D	1					
7797	19	2:D	1	PROCEDURE DOCACHE2;	(* P010D02 *)			

7798	19	2:D	1					
7799	19	2:D	1	TYPE				
7800	19	2:D	1	TSEGDICT = RECORD				
7801	19	2:D	1	DISKINFO: ARRAY[0..15] OF				
7802	19	2:D	1	RECORD				
7803	19	2:D	1	CODEADDR : INTEGER;				
7804	19	2:D	1	CODELENG : INTEGER;				
7805	19	2:D	1	END;				
7806	19	2:D	1	SEGNAME : ARRAY[0..15] OF PACKED ARRAY[0..7] OF CHAR;				
7807	19	2:D	1	SEKIND : ARRAY[0..15] OF INTEGER; (* MORE STUFF *)				
7808	19	2:D	1	TEXTADDR : ARRAY[0..15] OF INTEGER;				
7809	19	2:D	1	SEGINFO : PACKED ARRAY[0..15] OF INTEGER; (* MORE STUFF *)				
7810	19	2:D	1	INTRINS : SET OF 0..31;				
7811	19	2:D	1	(* UNDEFINED FORMAT STUFF *)				
7812	19	2:D	1	COMMENT : STRING;				
7813	19	2:D	1	END;				
7814	19	2:D	1					
7815	19	2:D	1					
7816	19	2:D	1	VAR				
7817	19	2:D	1	SYSPASBL : INTEGER;				
7818	19	2:D	2	NAMEX : INTEGER;				
7819	19	2:D	3	SEGI : INTEGER;				
7820	19	2:D	4	MP04 : INTEGER;				
7821	19	2:D	5					
7822	19	2:D	5	SC : RECORD CASE INTEGER OF				
7823	19	2:D	5	1: (SEG : RECORD				
7824	19	2:D	5	ADDR : INTEGER;				
7825	19	2:D	5	LENG : INTEGER;				
7826	19	2:D	5	END);				
7827	19	2:D	5					
7828	19	2:D	5	2: (CACHE : RECORD				
7829	19	2:D	5	ZERO : INTEGER;				
7830	19	2:D	5	ONE : INTEGER;				
7831	19	2:D	5	END)				
7832	19	2:D	5	END;				
7833	19	2:D	7					
7834	19	2:D	7	SEGNAMES : PACKED ARRAY[0..15] OF STRING[8];				
7835	19	2:D	87	DIR : ARRAY[0..77] OF DIRENTRY; (* 78 ENTRIES *)				
7836	19	2:D	1101	(* 77 IN FINDFILE() *)				
7837	19	2:D	1101	SEGDICT : TSEGDICT;				
7838	19	2:D	1288	BMSTCACH : PACKED ARRAY[0..1023] OF BOOLEAN;				
7839	19	2:D	1352	BTSTCACH : PACKED ARRAY[0..1023] OF BOOLEAN;				
7840	19	2:D	1416	CACHSIZ : INTEGER;				
7841	19	2:D	1417					
7842	19	2:D	1417					
7843	19	3:D	1	PROCEDURE P010D03(MP07 : STRING;				
7844	19	3:D	2	MP06 : INTEGER;				
7845	19	3:D	3	MP05 : INTEGER;				
7846	19	3:D	4	MP04 : INTEGER;				
7847	19	3:D	5	MP03 : INTEGER;				
7848	19	3:D	6	MP02 : INTEGER;				
7849	19	3:D	7	MP01 : INTEGER);				
7850	19	3:D	49					
7851	19	3:D	49	(* UNREACHABLE CODE !? *)				
7852	19	3:D	49					
7853	19	3:D	49	VAR				
7854	19	3:D	49	MP31 : TWINDOWP;				

7855	19	3:D	50					
7856	19	3:0	0	BEGIN	(* P010D03 *)			
7857	19	3:1	0	MP31 :=	GETWIN(0, 10, 40, 5, 31, TRUE);			
7858	19	3:1	18	CENTSTR	(MP31, MP07);			
7859	19	3:1	25	PRINTNUM	(MP31, MP06, 5);			
7860	19	3:1	32	PRINTNUM	(MP31, MP05, 5);			
7861	19	3:1	39	PRINTNUM	(MP31, MP04, 5);			
7862	19	3:1	46	PRINTNUM	(MP31, MP03, 5);			
7863	19	3:1	53	PRINTNUM	(MP31, MP02, 5);			
7864	19	3:1	60	PRINTNUM	(MP31, MP01, 5);			
7865	19	3:1	67	PRINTCR	(MP31);			
7866	19	3:1	72	CENTSTR	(MP31, 'PRESS RETURN');			
7867	19	3:1	92	GETCR;				
7868	19	3:1	95	DELWIN	(MP31, TRUE)			
7869	19	3:0	98	END;	(* P010D03 *)			
7870	19	3:0	114					
7871	19	3:0	114					
7872	19	4:D	1	PROCEDURE	CACHOFF; (* P010D04 *)			
7873	19	4:D	1					
7874	19	4:D	1	VAR				
7875	19	4:D	1	UWZERO	: INTEGER;			
7876	19	4:D	2					
7877	19	4:0	0	BEGIN	(* CACHOFF *)			
7878	19	4:1	0	IF	BCACHE THEN			
7879	19	4:2	5	BEGIN				
7880	19	4:3	5	UWZERO	:= -1; (* TURN OFF LOOKING FOR CACHE *)			
7881	19	4:3	9	UNITWRITE	(BASE12, UWZERO, 25, 0)			
7882	19	4:2	19	END				
7883	19	4:0	19	END;	(* CACHOFF *)			
7884	19	4:0	32					
7885	19	4:0	32					
7886	19	5:D	1	PROCEDURE	CACHON; (* P010D05 *)			
7887	19	5:D	1					
7888	19	5:D	1	VAR				
7889	19	5:D	1	UWZERO	: INTEGER;			
7890	19	5:D	2					
7891	19	5:0	0	BEGIN	(* CACHON *)			
7892	19	5:1	0	IF	BCACHE THEN			
7893	19	5:2	5	BEGIN				
7894	19	5:3	5	UWZERO	:= -2;			
7895	19	5:3	9	UNITWRITE	(BASE12, UWZERO, 25, 0) (* \$EE := -1 *)			
7896	19	5:2	19	END				
7897	19	5:0	19	END;	(* CACHON *)			
7898	19	5:0	32					
7899	19	5:0	32					
7900	19	6:D	1	PROCEDURE	INITCACH; (* P010D06 *)			
7901	19	6:D	1					
7902	19	6:D	1	VAR				
7903	19	6:D	1	UWZERO	: INTEGER;			
7904	19	6:D	2					
7905	19	6:0	0	BEGIN	(* SETE6 *)			
7906	19	6:1	0	CACHON;				
7907	19	6:1	2	UWZERO	:= 1;			
7908	19	6:1	5	UNITWRITE	(BASE12, UWZERO, 22, UWZERO); (* \$E6 := #80 *)			
7909	19	6:1	15	EXIT	(DOCACHE2)			
7910	19	6:0	19	END;	(* INITCACH *)			
7911	19	6:0	32					

7912	19	6:0	32				
7913	19	7:D	3	FUNCTION GETFILEI(UNUSED : INTEGER; (* P010D07 *)			
7914	19	7:D	4	FILENM : STRING) : INTEGER;			
7915	19	7:D	46				
7916	19	7:D	46	VAR			
7917	19	7:D	46	FILEI : INTEGER;			
7918	19	7:D	47				
7919	19	7:0	0	BEGIN (* GETFILEI *)			
7920	19	7:1	0	FOR FILEI := 1 TO DIR[0].FILECNT DO			
7921	19	7:2	25	BEGIN			
7922	19	7:3	25	IF (DIR[FILEI].FILEKIND.FT >= BADBLK) AND			
7923	19	7:3	39	(DIR[FILEI].FILEKIND.FT <= FOTOFI) THEN			
7924	19	7:3	56				
7925	19	7:4	56	IF DIR[FILEI].FILENAME = FILENM THEN			
7926	19	7:5	71	BEGIN			
7927	19	7:6	71	GETFILEI := FILEI;			
7928	19	7:6	75	EXIT(GETFILEI)			
7929	19	7:5	79	END;			
7930	19	7:2	79	END;			
7931	19	7:1	87	GETFILEI := -9			
7932	19	7:0	87	END; (* GETFILEI *)			
7933	19	7:0	106				
7934	19	7:0	106				
7935	19	8:D	1	PROCEDURE SETBMST; (* P010D08 *)			
7936	19	8:D	1				
7937	19	8:D	1	VAR			
7938	19	8:D	1	X : INTEGER;			
7939	19	8:D	2				
7940	19	8:0	0	BEGIN (* SETBMST *)			
7941	19	8:1	0	FOR X := SC.SEG.ADDR TO SC.SEG.ADDR + SC.SEG.LENG - 1 DO			
7942	19	8:2	21	IF CACHSIZ > 0 THEN			
7943	19	8:3	29	BEGIN			
7944	19	8:4	29	BMSTCACH[X] := TRUE;			
7945	19	8:4	39	CACHSIZ := CACHSIZ - 1			
7946	19	8:3	43	END;			
7947	19	8:0	56	END; (* SETBMST *)			
7948	19	8:0	70				
7949	19	8:0	70				
7950	19	9:D	1	PROCEDURE STBCACH3(MP01 : INTEGER); (* P010D09 *)			
7951	19	9:D	2				
7952	19	9:D	2	VAR			
7953	19	9:D	2	P09MP02 : INTEGER;			
7954	19	9:D	3	P09MP03 : INTEGER;			
7955	19	9:D	4				
7956	19	9:D	4				
7957	19	10:D	1	PROCEDURE P010D0A(MP03 : INTEGER;			
7958	19	10:D	2	MP02 : INTEGER;			
7959	19	10:D	3	MP01 : INTEGER);			
7960	19	10:D	4				
7961	19	10:D	4	(* SIMILAR TO GETREC() *)			
7962	19	10:D	4				
7963	19	10:D	4	VAR			
7964	19	10:D	4	MP04 : INTEGER;			
7965	19	10:D	5	MP05 : INTEGER;			
7966	19	10:D	6	MP06 : INTEGER;			
7967	19	10:D	7	MP07 : INTEGER;			
7968	19	10:D	8				

7969	19	10:0	0	BEGIN (* P010D0A *)			
7970	19	10:1	0	P09MP03 := MP03 + SCENBLK;			
7971	19	10:1	7	P09MP02 := 0;			
7972	19	10:1	11	MP04 := 30000 DIV MP01;			
7973	19	10:1	18	WHILE MP02 > 0 DO			
7974	19	10:2	23	BEGIN			
7975	19	10:3	23	IF MP02 > MP04 THEN			
7976	19	10:4	28	MP07 := MP04			
7977	19	10:3	28	ELSE			
7978	19	10:4	33	MP07 := MP02;			
7979	19	10:3	36	MP02 := MP02 - MP07;			
7980	19	10:3	41	P09MP02 := P09MP02 + MP07 * MP01;			
7981	19	10:3	51	P09MP03 := P09MP03 + (P09MP02 DIV 512);			
7982	19	10:3	65	P09MP02 := P09MP02 MOD 512			
7983	19	10:2	68	END			
7984	19	10:0	75	END; (* P010D0A *)			
7985	19	10:0	92				
7986	19	10:0	92				
7987	19	9:0	0	BEGIN (* STBCACH3 *)			
7988	19	9:1	0	IF CACHSIZ = 0 THEN			
7989	19	9:2	8	EXIT(STBCACH3);			
7990	19	9:1	12	P010D0A(SCENARIO.BLOFF[MP01],			
7991	19	9:1	19	SCENARIO.RECPERDK[MP01],			
7992	19	9:1	26	SCENARIO.RECSIZE[MP01]);			
7993	19	9:1	35	SC.SEG.ADDR := SCENBLK + SCENARIO.BLOFF[MP01];			
7994	19	9:1	48	SC.SEG.LENG := 1 + P09MP03 - SC.SEG.ADDR;			
7995	19	9:1	58	IF P09MP02 = 0 THEN			
7996	19	9:2	63	SC.SEG.LENG := SC.SEG.LENG - 1;			
7997	19	9:1	71	SETBMST			
7998	19	9:0	71	END; (* STBCACH3 *)			
7999	19	9:0	86				
8000	19	9:0	86				
8001	19	11:D	1	PROCEDURE STBCACH2(MP01 : STRING); (* P010D0B *)			
8002	19	11:D	43				
8003	19	11:D	43	VAR			
8004	19	11:D	43	FILEI : INTEGER;			
8005	19	11:D	44	UNUSED : STRING;			
8006	19	11:D	85				
8007	19	11:D	85				
8008	19	11:0	0	BEGIN (* STBCACH2 *)			
8009	19	11:1	0	IF CACHSIZ = 0 THEN			
8010	19	11:2	13	EXIT(STBCACH2);			
8011	19	11:1	17	FILEI := GETFILEI(4, MP01);			
8012	19	11:1	26	IF FILEI <= 0 THEN			
8013	19	11:2	32	EXIT(STBCACH2);			
8014	19	11:1	36	SC.SEG.ADDR := DIR[FILEI].FIRSTBLK;			
8015	19	11:1	47	SC.SEG.LENG := DIR[FILEI].LASTBLK - DIR[FILEI].FIRSTBLK;			
8016	19	11:1	67	SETBMST			
8017	19	11:0	67	END; (* STBCACH2 *)			
8018	19	11:0	82				
8019	19	11:0	82				
8020	19	12:D	1	PROCEDURE STBCACH(SEGNAM : STRING); (* P010D0C *)			
8021	19	12:D	43				
8022	19	12:D	43	(* SET BMSTCACH[] ELEMENTS TRUE TO INDICATE THE BLOCK SHOULD BE *)			
8023	19	12:D	43	(* READ INTO CACHE FOR THE 'SEGNAM'. *)			
8024	19	12:D	43				
8025	19	12:D	43	VAR			

8026	19	12:D	43	UNUSED	: INTEGER;			
8027	19	12:D	44	SEGI	: INTEGER;			
8028	19	12:D	45	UNUSED2	: ARRAY[0..40] OF INTEGER;			
8029	19	12:D	86					
8030	19	12:0	0	BEGIN	(* STBCACH *)			
8031	19	12:1	0	IF	CACHSIZ = 0 THEN			
8032	19	12:2	13	EXIT	(STBCACH);			
8033	19	12:1	17	FOR	SEGI := 0 TO 15 DO			
8034	19	12:2	30	BEGIN				
8035	19	12:3	30	IF	SEGNAM = SEGNAMES[SEGI] THEN			
8036	19	12:4	43	BEGIN				
8037	19	12:5	43	SC.SEG.ADDR	:= DIR[SYSPASBL].FIRSTBLK +			
8038	19	12:5	52	SEGDICT.DISKINFO[SEGI].CODEADDR;				
8039	19	12:5	65	SC.SEG.LENG	:=			
8040	19	12:5	65	(SEGDICT.DISKINFO[SEGI].CODELENG + 511) DIV 512;				
8041	19	12:5	85	SETBMST;				
8042	19	12:5	87	EXIT	(STBCACH)			
8043	19	12:4	91	END;				
8044	19	12:2	91	END				
8045	19	12:0	91	END;	(* STBCACH *)			
8046	19	12:0	114					
8047	19	12:0	114					
8048	19	13:D	1	PROCEDURE	P010D0D;			
8049	19	13:D	1					
8050	19	13:D	1	(* UNREACHABLE CODE (!?) *)				
8051	19	13:D	1					
8052	19	13:D	1	VAR				
8053	19	13:D	1	MP01	: INTEGER;			
8054	19	13:D	2	MP02	: PACKED ARRAY[0..511] OF CHAR;			
8055	19	13:D	258	MP102	: PACKED ARRAY[0..511] OF CHAR;			
8056	19	13:D	514					
8057	19	13:0	0	BEGIN	(* P010D0D *)			
8058	19	13:1	0	P010D03	('Testing Cache against Disk',			
8059	19	13:1	29	0, 0, 0, 0, 0, 0);				
8060	19	13:1	37	FOR	MP01 := 0 TO 1023 DO			
8061	19	13:2	53	BEGIN				
8062	19	13:3	53	IF	BTSTCACH[MP01] THEN			
8063	19	13:4	64	BEGIN				
8064	19	13:5	64	CACHOFF;				
8065	19	13:5	66	UNITREAD	(4, MP102, 512, MP01);			
8066	19	13:5	78	CACHON;				
8067	19	13:5	80	UNITREAD	(4, MP02, 512, MP01);			
8068	19	13:5	91	IF	MP102 <> MP02 THEN			
8069	19	13:6	102	P010D03	('Cache <> Disk at block',			
8070	19	13:6	127	MP01, 0, 0, 0, 0, 0)				
8071	19	13:4	133	END;				
8072	19	13:2	135	END;				
8073	19	13:2	142					
8074	19	13:0	142	END;	(* P010D0D *)			
8075	19	13:0	156					
8076	19	13:0	156					
8077	19	14:D	1	PROCEDURE	FILLCACH; (* P010D0E *)			
8078	19	14:D	1					
8079	19	14:D	1	VAR				
8080	19	14:D	1	UNUSED	: INTEGER;			
8081	19	14:D	2	UNUSED2	: INTEGER;			
8082	19	14:D	3	VBLOCK	: INTEGER;			

8083	19	14:D	4	THISDISK : INTEGER;			
8084	19	14:D	5	MORE2DO : BOOLEAN;			
8085	19	14:D	6				
8086	19	14:D	6				
8087	19	15:D	3	FUNCTION GETDSKID(VBLOCK : INTEGER) : INTEGER; (* P010D0F *)			
8088	19	15:D	4				
8089	19	15:D	4	(*			
8090	19	15:D	4	THE UNITREAD() MAY CAUSE:			
8091	19	15:D	4				
8092	19	15:D	4	PLEASE INSERT SCENARIO DISKETTE %N			
8093	19	15:D	4				
8094	19	15:D	4	*)			
8095	19	15:D	4				
8096	19	15:D	4	VAR			
8097	19	15:D	4	DISKID : INTEGER; (* 1, 2, 3, 4, 5 *)			
8098	19	15:D	5				
8099	19	15:0	0	BEGIN (* GETDSKID *)			
8100	19	15:1	0	IF NOT BRELOC THEN			
8101	19	15:2	6	GETDSKID := 1			
8102	19	15:1	6	ELSE			
8103	19	15:2	11	BEGIN			
8104	19	15:3	11	DISKID := 4;			
8105	19	15:3	14	UNITREAD(BASE12, DISKID, 31, VBLOCK);			
8106	19	15:3	24	GETDSKID := DISKID			
8107	19	15:2	24	END			
8108	19	15:0	27	END; (* GETDSKID *)			
8109	19	15:0	40				
8110	19	15:0	40				
8111	19	14:0	0	BEGIN (* FILLCACH *)			
8112	19	14:1	0	FOR VBLOCK := 0 TO 1023 DO			
8113	19	14:2	13	IF BMSTCACH[VBLOCK] THEN			
8114	19	14:3	24	IF GETDSKID(VBLOCK) = 0 THEN			
8115	19	14:3	33				
8116	19	14:3	33	(* NOT A VALID VIRTUAL DISK ADDRESS !? *)			
8117	19	14:3	33				
8118	19	14:4	33	BMSTCACH[VBLOCK] := FALSE;			
8119	19	14:4	50				
8120	19	14:1	50	BTSTCACH := BMSTCACH;			
8121	19	14:1	60				
8122	19	14:1	60	THISDISK := 1;			
8123	19	14:1	63				
8124	19	14:1	63	REPEAT			
8125	19	14:1	63				
8126	19	14:2	63	MORE2DO := FALSE;			
8127	19	14:2	66	VBLOCK := 0;			
8128	19	14:2	69	WHILE VBLOCK < 1024 DO			
8129	19	14:3	76	BEGIN			
8130	19	14:4	76	IF BMSTCACH[VBLOCK] THEN			
8131	19	14:5	87	BEGIN			
8132	19	14:6	87	IF GETDSKID(VBLOCK) = THISDISK THEN			
8133	19	14:7	96	BEGIN			
8134	19	14:8	96	SC.SEG.ADDR := VBLOCK;			
8135	19	14:8	100	BMSTCACH[VBLOCK] := FALSE;			
8136	19	14:8	110	VBLOCK := VBLOCK + 1;			
8137	19	14:8	115	WHILE (VBLOCK < 1024) AND			
8138	19	14:8	120	(BMSTCACH[VBLOCK]) AND			
8139	19	14:8	130	(GETDSKID(VBLOCK) = THISDISK) DO			

8140	19	14:9	140	BEGIN			
8141	19	14:0	140	BMSTCACH[VBLOCK] := FALSE;			
8142	19	14:0	150	VBLOCK := VBLOCK + 1			
8143	19	14:9	151	END;			
8144	19	14:9	157				
8145	19	14:8	157	VBLOCK := VBLOCK - 1;			
8146	19	14:8	162	SC.SEG.LENG := 1 + VBLOCK - SC.SEG.ADDR;			
8147	19	14:8	172	UNITWRITE(BASE12, SC.SEG.ADDR, 25, 0)			
8148	19	14:7	183	END			
8149	19	14:6	183	ELSE			
8150	19	14:7	185	BEGIN			
8151	19	14:8	185	MORE2DO := TRUE			
8152	19	14:7	185	END			
8153	19	14:5	188	END; (* IF BMSTCACH[VBLOCK] *)			
8154	19	14:5	188				
8155	19	14:4	188	VBLOCK := VBLOCK + 1			
8156	19	14:3	189	END; (* END WHILE *)			
8157	19	14:3	195				
8158	19	14:2	195	THISDISK := THISDISK + 1			
8159	19	14:2	196				
8160	19	14:1	196	UNTIL NOT MORE2DO			
8161	19	14:1	200				
8162	19	14:0	200	END; (* FILLCACH *)			
8163	19	14:0	224				
8164	19	14:0	224				
8165	19	2:0	0	BEGIN (* DOCACHE2 *)			
8166	19	2:1	0	BASE13 := 1; (* SHOPS *)			
8167	19	2:1	3	IF NOT BCACHE THEN			
8168	19	2:2	9	EXIT(DOCACHE2);			
8169	19	2:2	13				
8170	19	2:1	13	CACHOFF; (* TURN OFF LOOKING FOR CACHE, I.E, \$E8 := 0 *)			
8171	19	2:1	15				
8172	19	2:1	15	SC.CACHE.ZERO := -3; (* INIT \$E9, \$EA, \$EB TO 0; \$E8 := 1 *)			
8173	19	2:1	19	UNITWRITE(BASE12, SC.CACHE.ZERO, 25, 0);			
8174	19	2:1	29				
8175	19	2:1	29	SC.CACHE.ZERO := 0; (* GET AVAILABLE CACHE SIZE *)			
8176	19	2:1	32	SC.CACHE.ONE := 0;			
8177	19	2:1	35	UNITWRITE(BASE12, SC.CACHE.ZERO, 25, 0);			
8178	19	2:1	45	CACHSIZ := SC.CACHE.ZERO;			
8179	19	2:1	49	IF CACHSIZ = 0 THEN			
8180	19	2:2	56	EXIT(DOCACHE2);			
8181	19	2:2	60				
8182	19	2:1	60	CLEARWIN(MAINWIN, TRUE);			
8183	19	2:1	66	MP04 := 60;			
8184	19	2:1	69	GETMSGTX(BASE47, MP04); (* NOW LOADING PROGRAM SEGMENTS *)			
8185	19	2:1	75	WHILE BASE47 <> '**ERR**' DO (* INTO EXTRA MEMORY... *)			
8186	19	2:2	91	BEGIN			
8187	19	2:3	91	CENTSTR(MAINWIN, BASE47);			
8188	19	2:3	98	MP04 := MP04 + 1;			
8189	19	2:3	103	GETMSGTX(BASE47, MP04)			
8190	19	2:2	106	END;			
8191	19	2:2	111				
8192	19	2:1	111	FILLCHAR(DIR, 2028, CHR(0));			
8193	19	2:1	120	UNITREAD(DRIVE1, DIR, 2028, 2);			
8194	19	2:1	131	SYSPASBL := GETFILEI(4, 'SYSTEM.PASCAL');			
8195	19	2:1	154	UNITREAD(DRIVE1, SEGDICT, SIZEOF(SEGDICT),			
8196	19	2:1	162	DIR[SYSPASBL].FIRSTBLK); (* SYSTEM.PASCAL SEG DICTIONARY *)			

8197	19	2:1	171						
8198	19	2:1	171	(* GET "SEGNAME".				*	
8199	19	2:1	171	(* SET SEGNAME LENGTHS TO 8.				*	
8200	19	2:1	171	(* CHANGE NULL OR ' ' TO BLANK CHAR				*	
8201	19	2:1	171						
8202	19	2:1	171	FILLCHAR(SEGNAME, 160, CHR(0));					
8203	19	2:1	180						
8204	19	2:1	180	FOR SEGI := 0 TO 15 DO					
8205	19	2:2	194	BEGIN					
8206	19	2:3	194	FOR NAMEX := 0 TO 7 DO					
8207	19	2:4	208	SEGNAME[SEGI][NAMEX + 1] := SEGNAME[SEGI][NAMEX];					
8208	19	2:3	232	SEGNAME[SEGI][0] := CHR(8);					
8209	19	2:3	240	FOR NAMEX := 1 TO 8 DO					
8210	19	2:4	254	IF (SEGNAME[SEGI][NAMEX] = CHR(0)) OR					
8211	19	2:4	263	(SEGNAME[SEGI][NAMEX] = ' ') THEN					
8212	19	2:5	275	SEGNAME[SEGI][NAMEX] := ' '					
8213	19	2:2	281	END;					
8214	19	2:2	297						
8215	19	2:2	297	(* NOTE THE FOLLOWING ARE IN ORDER OF PRECEDENCE.				*	
8216	19	2:2	297	(* ONLY WHEN CACHE IS AVAILABLE ARE THE CACHE REQUESTS SET. *)					
8217	19	2:2	297						
8218	19	2:2	297	(* EACH CALL WILL "SET MASTER BCACHE" FOR EACH VIRTUAL BLOCK REQUESTED *)					
8219	19	2:2	297						
8220	19	2:1	297	FILLCHAR(BMSTCACH, SIZEOF(BMSTCACH), CHR(0));					
8221	19	2:1	307	STBCACH('CASTASPE');					
8222	19	2:1	320	STBCACH('SWINGASW');					
8223	19	2:1	333	STBCACH('CINIT');					
8224	19	2:1	346	STBCACH('CUTIL');					
8225	19	2:1	359	STBCACH('COMBAT');					
8226	19	2:1	372	STBCACH('RUNNER');					
8227	19	2:1	385	STBCACH('CAMP');					
8228	19	2:1	398						
8229	19	2:1	398	CASE ORD(BASE75B[0]) OF					
8230	19	2:1	405	0: STBCACH2('ASCII.KRN');					
8231	19	2:1	421	1: STBCACH2('KANA.KRN');					
8232	19	2:1	436	2: STBCACH2('KANJI.KRN');					
8233	19	2:1	452	END;					
8234	19	2:1	466						
8235	19	2:1	466	STBCACH('UTILITIE');					
8236	19	2:1	479	STBCACH('SPECIALS');					
8237	19	2:1	492						
8238	19	2:1	492	STBCACH3(4); (* SCENARIO.DATA RECORDS (?) *)					
8239	19	2:1	495	STBCACH3(2); (* SCENARIO.DATA RECORDS (?) *)					
8240	19	2:1	498						
8241	19	2:1	498	STBCACH('SHOPS');					
8242	19	2:1	511	STBCACH('KANJIAREA');					
8243	19	2:1	524						
8244	19	2:1	524	CASE ORD(BASE75B[1]) OF					
8245	19	2:1	531	0: STBCACH2('200.MONSTERS');					
8246	19	2:1	550	1: STBCACH2('400.MONSTERS');					
8247	19	2:1	569	END;					
8248	19	2:1	580						
8249	19	2:1	580	STBCACH3(5); (* SCENARIO.DATA RECORDS (?) *)					
8250	19	2:1	583	FILLCACH;					
8251	19	2:1	585	INITCACH;					
8252	19	2:1	587						
8253	19	2:0	587	END; (* DOCACHE2 *)					

8254	19	2:0	608						
8255	19	2:0	608						
8256	19	1:0	0	BEGIN	(* DOCACHE P010D01 *)				
8257	19	1:0	0						
8258	19	1:1	0	DOCACHE2;					
8259	19	1:1	2	BASE09 := 0					
8260	19	1:1	2						
8261	19	1:0	2	END;					
8262	19	1:0	18	(* \$I WIZ4B:DOCACHE *)					
8263	19	1:0	18						
8264	19	1:0	18	(* ===== END SEGMENTS ===== *)					
8265	19	1:0	18						
8266	19	1:0	18						
8267	1	3:D	3	FUNCTION GETADDR;	(* (VAR A:STRING) : INTEGER; *) (* P010003 *)				
8268	1	3:D	4						
8269	1	3:D	4	VAR					
8270	1	3:D	4	MP04 : ARRAY[0..0] OF INTEGER;					
8271	1	3:D	5						
8272	1	3:0	0	BEGIN					
8273	1	3:1	0	GETADDR := MP04[-1]					
8274	1	3:0	6	END;					
8275	1	3:0	22						
8276	1	3:0	22						
8277	1	56:D	1	PROCEDURE BEEPSPKR;	(* MP01 : INTEGER *) (* P010038 *)				
8278	1	56:D	2						
8279	1	56:0	0	BEGIN (* P010038 *)					
8280	1	56:1	0	UNITWRITE(BASE12, MP01, 24, MP01)					
8281	1	56:0	10	END; (* P010038 *)					
8282	1	56:0	22						
8283	1	56:0	22						
8284	1	47:D	3	FUNCTION P01002F;	(* MP04 : TLONGSTR;				
8285	1	47:D	261		MP03 : TLONGSTR) : INTEGER *)				
8286	1	47:D	261						
8287	1	47:D	261	VAR					
8288	1	47:D	261	MP105 : INTEGER;					
8289	1	47:D	262						
8290	1	47:D	262						
8291	1	60:D	1	PROCEDURE P01003C(MP01 : INTEGER);					
8292	1	60:D	2						
8293	1	60:0	0	BEGIN					
8294	1	60:1	0	P01002F := MP01;					
8295	1	60:1	4	EXIT(P01002F)					
8296	1	60:0	8	END;					
8297	1	60:0	20						
8298	1	60:0	20						
8299	1	61:D	1	PROCEDURE P01003D;					
8300	1	61:D	1						
8301	1	61:D	1	VAR					
8302	1	61:D	1	MP01 : INTEGER;					
8303	1	61:D	2	MP02 : INTEGER;					
8304	1	61:D	3						
8305	1	61:0	0	BEGIN					
8306	1	61:1	0	MP01 := MP105 + 1;					
8307	1	61:1	8	FOR MP02 := 2 TO LENGTH(MP04) DO					
8308	1	61:2	24	BEGIN					
8309	1	61:3	24	IF MP04[MP02] <> MP03[MP01] THEN					
8310	1	61:4	38	EXIT(P01003D)					

8311	1	61:3	42	ELSE				
8312	1	61:4	44	MP01 := MP01 + 1				
8313	1	61:2	45	END;				
8314	1	61:1	56	P01003C(MP105)				
8315	1	61:0	60	END;				
8316	1	61:0	76					
8317	1	61:0	76					
8318	1	47:0	0	BEGIN (* P01002F *)				
8319	1	47:1	0	IF BSTROPS THEN				
8320	1	47:2	16	BEGIN				
8321	1	47:3	16	UNITWRITE(BASE12, MP105, 29, GETADDR(MP04), GETADDR(MP03));				
8322	1	47:3	38	P01002F := MP105;				
8323	1	47:3	43	EXIT(P01002F)				
8324	1	47:2	47	END;				
8325	1	47:2	47					
8326	1	47:2	47	(* NEVER EXECUTED *)				
8327	1	47:2	47					
8328	1	47:1	47	IF (LENGTH(MP04) = 0) OR (LENGTH(MP03) = 0) THEN				
8329	1	47:2	63	P01003C(0);				
8330	1	47:1	66	FOR MP105 := 1 TO LENGTH(MP03) - LENGTH(MP04) + 1 DO				
8331	1	47:2	94	IF MP03[MP105] = MP04[1] THEN				
8332	1	47:3	108	P01003D;				
8333	1	47:1	120	P01003C(0)				
8334	1	47:1	121					
8335	1	47:0	121	END; (* P01002F *)				
8336	1	47:0	138					
8337	1	47:0	138					
8338	1	48:D	3	FUNCTION POS; (* SUBSTR MP04 : TLONGSTR; P010030				
8339	1	48:D	261	BIGSTR MP03 : TLONGSTR) : INTEGER *)				
8340	1	48:D	261					
8341	1	48:D	261	(* POS() STRING FUNCTION *)				
8342	1	48:D	261					
8343	1	48:D	261	VAR				
8344	1	48:D	261	MP105 : INTEGER;				
8345	1	48:D	262	POSFND : INTEGER;				
8346	1	48:D	263					
8347	1	48:D	263	MPXXXX : ARRAY[0..3] OF INTEGER;				
8348	1	48:D	267					
8349	1	48:0	0	BEGIN				
8350	1	48:1	0	IF BSTROPS THEN				
8351	1	48:2	16	BEGIN				
8352	1	48:3	16	UNITWRITE(BASE12, POSFND, 29,				
8353	1	48:3	23	GETADDR(SUBSTR), GETADDR(BIGSTR));				
8354	1	48:3	38	POS := POSFND;				
8355	1	48:3	43	EXIT(POS)				
8356	1	48:2	47	END;				
8357	1	48:2	47					
8358	1	48:2	47	(* CODE BELOW HERE NEVER EXECUTED! *)				
8359	1	48:2	47					
8360	1	48:1	47	MP105 := 0;				
8361	1	48:1	51					
8362	1	48:1	51	REPEAT				
8363	1	48:2	51	POSFND := P01002F(SUBSTR, BIGSTR);				
8364	1	48:2	63	IF POSFND <> 0 THEN				
8365	1	48:3	70	BEGIN				
8366	1	48:4	70	IF POSFND > 1 THEN				
8367	1	48:5	77	BEGIN				

8368	1	48:6	77	IF (BIGSTR[POSFND - 1] >= CHR(129)) AND				
8369	1	48:6	89	(BIGSTR[POSFND - 1] <= CHR(159)) THEN				
8370	1	48:7	104	BEGIN				
8371	1	48:8	104	COPYSTR(BIGSTR, BIGSTR, (POSFND + 1),				
8372	1	48:8	113	LENGTH(BIGSTR) - POSFND);				
8373	1	48:8	123	MP105 := MP105 + POSFND;				
8374	1	48:8	133	POSFND := -1;				
8375	1	48:7	138	END;				
8376	1	48:5	138	END;				
8377	1	48:5	138					
8378	1	48:4	138	IF POSFND > 0 THEN				
8379	1	48:5	145	BEGIN				
8380	1	48:6	145	POS := POSFND + MP105;				
8381	1	48:6	154	EXIT(POS)				
8382	1	48:5	158	END;				
8383	1	48:3	158	END;				
8384	1	48:3	158					
8385	1	48:1	158	UNTIL POSFND = 0;				
8386	1	48:1	165					
8387	1	48:1	165	POS := 0;				
8388	1	48:1	168					
8389	1	48:0	168	END;				
8390	1	48:0	182					
8391	1	48:0	182					
8392	1	48:0	182					
8392	1	48:0	182	(* \$I WIZ4A: WIZ2.TEXT *)				
8393	1	48:0	182					
8394	1	48:0	182					
8395	1	48:0	182	(* WIZ2 *)				
8396	1	48:0	182					
8397	1	48:0	182					
8398	1	46:D	1	PROCEDURE COPYSTR; (* VAR DEST: TLONGSTR; P01002E				
8399	1	46:D	133	SRC: TLONGSTR;				
8400	1	46:D	133	FIRST: INTEGER;				
8401	1	46:D	133	COUNT: INTEGER *)				
8402	1	46:D	133					
8403	1	46:0	0	BEGIN				
8404	1	46:1	0	IF (FIRST + COUNT) - 1 > LENGTH(SRC) THEN				
8405	1	46:2	17	COUNT := LENGTH(SRC) - FIRST + 1;				
8406	1	46:1	27	IF COUNT < 0 THEN				
8407	1	46:2	32	COUNT := 0;				
8408	1	46:1	35	DEST[0] := CHR(COUNT);				
8409	1	46:1	39	IF COUNT > 0 THEN				
8410	1	46:2	44	MOVELEFT(SRC[FIRST], DEST[1], COUNT)				
8411	1	46:0	52	END;				
8412	1	46:0	64					
8413	1	46:0	64					
8414	1	43:D	1	PROCEDURE PCONCAT; (* (VAR A: STRING; B: STRING) *)				
8415	1	43:D	131					
8416	1	43:0	0	BEGIN				
8417	1	43:1	0	IF BSTROPS THEN				
8418	1	43:2	10	BEGIN				
8419	1	43:3	10	UNITWRITE(BASE12, A, 26, GETADDR(B));				
8420	1	43:3	24	EXIT(PCONCAT)				
8421	1	43:2	28	END;				
8422	1	43:1	28	MOVELEFT(B[1], A[LENGTH(A) + 1], LENGTH(B));				
8423	1	43:1	43	A[0] := CHR(LENGTH(A) + LENGTH(B))				

8424	1	43:0	53	END;				
8425	1	43:0	66					
8426	1	43:0	66					
8427	1	44:D	1	PROCEDURE PCONCAT2; (* VAR MP03 : TLONGSTR;		P01002C		
8428	1	44:D	260		MP02 : TLONGSTR;			
8429	1	44:D	260		MP01 : TLONGSTR) *)			
8430	1	44:D	260					
8431	1	44:0	0	BEGIN				
8432	1	44:1	0	IF BSTROPS THEN				
8433	1	44:2	16	BEGIN				
8434	1	44:3	16	UNITWRITE(BASE12, MP03, 26, GETADDR(MP02), GETADDR(MP01));				
8435	1	44:3	36	EXIT(PCONCAT2)				
8436	1	44:2	40	END;				
8437	1	44:2	40					
8438	1	44:2	40	(* CODE BELOW HERE NEVER EXECUTED *)				
8439	1	44:2	40					
8440	1	44:1	40	PCONCAT(MP03, MP02);				
8441	1	44:1	46	PCONCAT(MP03, MP01)				
8442	1	44:0	49	END;				
8443	1	44:0	64					
8444	1	44:0	64					
8445	1	45:D	1	PROCEDURE PCONCAT3; (* VAR MP04 : TLONGSTR;		P01002D		
8446	1	45:D	389		MP03 : TLONGSTR;			
8447	1	45:D	389		MP02 : TLONGSTR;			
8448	1	45:D	389		MP01 : TLONGSTR) *)			
8449	1	45:D	389					
8450	1	45:0	0	BEGIN (* PCONCAT3 *)				
8451	1	45:1	0	IF BSTROPS THEN				
8452	1	45:2	22	BEGIN				
8453	1	45:3	22	UNITWRITE(BASE12, MP04, 26, GETADDR(MP03), GETADDR(MP02));				
8454	1	45:3	43	UNITWRITE(BASE12, MP04, 26, GETADDR(MP01));				
8455	1	45:3	57	EXIT(PCONCAT3)				
8456	1	45:2	61	END;				
8457	1	45:2	61					
8458	1	45:2	61	(* NEVER EXECUTED *)				
8459	1	45:2	61					
8460	1	45:1	61	PCONCAT(MP04, MP03);				
8461	1	45:1	67	PCONCAT(MP04, MP02);				
8462	1	45:1	73	PCONCAT(MP04, MP01)				
8463	1	45:1	76					
8464	1	45:0	76	END; (* PCONCAT3 *)				
8465	1	45:0	90					
8466	1	45:0	90					
8467	1	49:D	1	PROCEDURE INT2STR; (* (ININT : INTEGER;		P010031		
8468	1	49:D	3		VAR OUTSTR : TLONGSTR); *)			
8469	1	49:D	3					
8470	1	49:D	3	VAR				
8471	1	49:D	3	UNUSED : INTEGER;				
8472	1	49:D	4	MP04 : INTEGER;				
8473	1	49:D	5	OUTI : INTEGER;				
8474	1	49:D	6	NEGATIVE : BOOLEAN;				
8475	1	49:D	7	MP07 : INTEGER;				
8476	1	49:D	8					
8477	1	49:0	0	BEGIN (* P010031 *)				
8478	1	49:1	0	NEGATIVE := ININT < 0;				
8479	1	49:1	5	ININT := ABS(ININT);				
8480	1	49:1	9	OUTI := 1;				

8481	1	49:1	12	OUTSTR[1] := '0';				
8482	1	49:1	16					
8483	1	49:1	16	(* FIRST BUILD THE STRING IN REVERSE ORDER *)				
8484	1	49:1	16					
8485	1	49:1	16	WHILE ININT <> 0 DO				
8486	1	49:2	21	BEGIN				
8487	1	49:3	21	OUTSTR[OUTI] := CHR(ORD('0') + (ININT MOD 10));				
8488	1	49:3	29	ININT := ININT DIV 10;				
8489	1	49:3	34	OUTI := OUTI + 1				
8490	1	49:2	35	END;				
8491	1	49:1	41	IF OUTI = 1 THEN				
8492	1	49:2	46	OUTI := 2;				
8493	1	49:1	49	IF NEGATIVE THEN				
8494	1	49:2	52	BEGIN				
8495	1	49:3	52	OUTSTR[OUTI] := '-';				
8496	1	49:3	56	OUTI := OUTI + 1				
8497	1	49:2	57	END;				
8498	1	49:2	61					
8499	1	49:2	61	(* NOW REVERSE THE ORDER TO NORMAL *)				
8500	1	49:2	61					
8501	1	49:1	61	MP04 := 1;				
8502	1	49:1	64	MP07 := OUTI DIV 2;				
8503	1	49:1	69	WHILE MP04 <= MP07 DO				
8504	1	49:2	74	BEGIN				
8505	1	49:3	74	OUTSTR[0] := OUTSTR[MP04];				
8506	1	49:3	80	OUTSTR[MP04] := OUTSTR[OUTI - MP04];				
8507	1	49:3	88	OUTSTR[OUTI - MP04] := OUTSTR[0];				
8508	1	49:3	96	MP04 := MP04 + 1				
8509	1	49:2	97	END;				
8510	1	49:1	103	OUTSTR[0] := CHR(OUTI - 1) (* STRING LENGTH *)				
8511	1	49:0	108	END; (* P010031 *)				
8512	1	49:0	126					
8513	1	49:0	126					
8514	1	50:D	1	PROCEDURE P010032; (* MP02 : TWIZLONG;				
8515	1	50:D	6	VAR MP01 : TLONGSTR) *)				
8516	1	50:D	6					
8517	1	50:D	6	VAR				
8518	1	50:D	6	(* MP03 == MP02.LOW				
8519	1	50:D	6	MP04 == MP02.MID				
8520	1	50:D	6	MP05 == MP02.HIGH *)				
8521	1	50:D	6					
8522	1	50:D	6	MP06 : STRING[10];				
8523	1	50:D	12	MPOC : STRING[10];				
8524	1	50:D	18					
8525	1	50:D	18					
8526	1	62:D	1	PROCEDURE P01003E(ININT : INTEGER;				
8527	1	62:D	2	VAR OUTSTR : TLONGSTR);				
8528	1	62:D	3					
8529	1	62:D	3	VAR				
8530	1	62:D	3	MP03 : STRING[10];				
8531	1	62:D	9					
8532	1	62:0	0	BEGIN (* P01003E *)				
8533	1	62:1	0	INT2STR(ININT, OUTSTR);				
8534	1	62:1	4	WHILE LENGTH(OUTSTR) < 4 DO				
8535	1	62:2	11	BEGIN				
8536	1	62:3	11	MP03 := '0';				
8537	1	62:3	16	PCONCAT(MP03, OUTSTR);				

8538	1	62:3	21	OUTSTR := MP03					
8539	1	62:2	22	END					
8540	1	62:0	26	END; (* P01003E *)					
8541	1	62:0	42						
8542	1	62:0	42						
8543	1	50:0	0	BEGIN (* P010032 *)					
8544	1	50:1	0	P01003E(MP02.HIGH, MP01);					
8545	1	50:1	9	P01003E(MP02.MID, MPOC);					
8546	1	50:1	14	P01003E(MP02.LOW, MP06);					
8547	1	50:1	19	PCONCAT2(MP01, MPOC, MP06);					
8548	1	50:1	26	WHILE (LENGTH(MP01) > 1) AND (MP01[1] = '0') DO					
8549	1	50:2	39	COPYSTR(MP01, MP01, 2, LENGTH(MP01) - 1)					
8550	1	50:2	47						
8551	1	50:0	47	END; (* P010032 *)					
8552	1	50:0	66						
8553	1	50:0	66						
8554	1	63:D	3	FUNCTION SEARCHBF(VAR MP05 : TCACHEP;				(* P01003F *)	
8555	1	63:D	4	VAR MP04 : TCACHEP;					
8556	1	63:D	5	MP03 : INTEGER) : TCACHEP; FORWARD;					
8557	1	63:D	6						
8558	1	63:D	6						
8559	1	64:D	1	PROCEDURE READCAC(VAR MP03 : TBUFFER;				(* P010040 *)	
8560	1	64:D	2	MP02 : INTEGER;					
8561	1	64:D	3	MP01 : BOOLEAN); FORWARD;					
8562	1	64:D	4						
8563	1	65:D	1	PROCEDURE WRITECAC(VAR MP03 : TBUFFER;				(* P010041 *)	
8564	1	65:D	2	MP02 : INTEGER;					
8565	1	65:D	3	MP01 : BOOLEAN); FORWARD;					
8566	1	65:D	4						
8567	1	66:D	1	PROCEDURE DRAWSCR(SHOW: BOOLEAN); FORWARD;				(* P010042 *)	
8568	1	66:D	2						
8569	1	66:D	2						
8570	1	66:D	2						
8571	1	66:D	2						
8572	1	66:D	2						
8573	1	51:D	3	FUNCTION GTLNGBSUB; (* MENUSTR : TLONGSTR) : INTEGER				(* P010033 *)	
8574	1	51:D	132						
8575	1	51:D	132	(* RETURN LENGTH OF LONGEST SUBSTRING BETWEEN '/' IN MENU STRING. *)					
8576	1	51:D	132	(* COULD BE FIRST PART, LAST PART, OR WHOLE MENU STRING. *)					
8577	1	51:D	132						
8578	1	51:D	132	VAR					
8579	1	51:D	132	SLASHPOS : INTEGER;					
8580	1	51:D	133	LONGEST : INTEGER;					
8581	1	51:D	134	SUBSTRNG : TLONGSTR;					
8582	1	51:D	262						
8583	1	51:0	0	BEGIN					
8584	1	51:1	0	LONGEST := 0;					
8585	1	51:1	9	SLASHPOS := POS('/', MENUSTR);					
8586	1	51:1	19	WHILE SLASHPOS <> 0 DO					
8587	1	51:2	26	BEGIN					
8588	1	51:3	26	COPYSTR(SUBSTRNG, MENUSTR, 1, (SLASHPOS - 1));					
8589	1	51:3	39	LONGEST := GREATER(LONGEST, MBSTRLEN(SUBSTRNG));					
8590	1	51:3	56	COPYSTR(MENUSTR, MENUSTR, (SLASHPOS + 1),					
8591	1	51:3	65	(LENGTH(MENUSTR) - SLASHPOS));					
8592	1	51:3	75	SLASHPOS := POS('/', MENUSTR)					
8593	1	51:2	78	END;					
8594	1	51:1	87	LONGEST := GREATER(LONGEST, MBSTRLEN(MENUSTR));					

8595	1	51:1	103	GTLNGSUB := LONGEST					
8596	1	51:0	103	END;					
8597	1	51:0	122						
8598	1	51:0	122						
8599	1	52:D	3	FUNCTION GREATER; (* NUM1 : INTEGER;				P010034	
8600	1	52:D	5	NUM2 : INTEGER) : INTEGER; *)					
8601	1	52:D	5						
8602	1	52:0	0	BEGIN					
8603	1	52:1	0	IF NUM1 > NUM2 THEN					
8604	1	52:2	5	GREATER := NUM1					
8605	1	52:1	5	ELSE					
8606	1	52:2	10	GREATER := NUM2					
8607	1	52:0	10	END;					
8608	1	52:0	26						
8609	1	52:0	26						
8610	1	53:D	3	FUNCTION GETWIN2; (* MBHORSIZ : INTEGER;				P010035	
8611	1	53:D	8	VPOS : INTEGER;					
8612	1	53:D	8	VSIZE : INTEGER;					
8613	1	53:D	8	PRIORITY : INTEGER;					
8614	1	53:D	8	SHOW : BOOLEAN) : TWINDOWP; *)					
8615	1	53:D	8						
8616	1	53:0	0	BEGIN					
8617	1	53:1	0	MBHORSIZ := (MBHORSIZ + 2) DIV 2;					
8618	1	53:1	7	GETWIN2 := GETWIN((19 - MBHORSIZ), (* CENTERED *)					
8619	1	53:1	10	VPOS,					
8620	1	53:1	11	(MBHORSIZ + MBHORSIZ + 2),					
8621	1	53:1	16	VSIZE,					
8622	1	53:1	17	PRIORITY,					
8623	1	53:1	18	SHOW)					
8624	1	53:0	19	END;					
8625	1	53:0	38						
8626	1	53:0	38						
8627	1	54:D	1	PROCEDURE INSERT2; (* VAR INSERTTX : TLONGSTR;				P010036	
8628	1	54:D	5	VAR WHOLESTR : TLONGSTR;					
8629	1	54:D	5	INSERTCH : TCHARSTR) *)					
8630	1	54:D	5						
8631	1	54:D	5	VAR					
8632	1	54:D	5	UNUSED : INTEGER;					
8633	1	54:D	6	FNDPOS : INTEGER;					
8634	1	54:D	7	BUILDSTR : TLONGSTR;					
8635	1	54:D	135						
8636	1	54:0	0	BEGIN					
8637	1	54:1	0	FNDPOS := POS(INSERTCH, WHOLESTR); (* FIND INSERTCH IN WHOLESTR *)					
8638	1	54:1	14	IF FNDPOS > 0 THEN					
8639	1	54:2	19	BEGIN					
8640	1	54:2	19	(* COPY FIRST PART OF WHOLESTR TO BUILDSTR *)					
8641	1	54:3	19	COPYSTR(BUILDSTR, WHOLESTR, 1, FNDPOS - 1);					
8642	1	54:3	28						
8643	1	54:3	28	(* COPY LAST PART OF WHOLESTR TO FIRST PART OF WHOLESTR *)					
8644	1	54:3	28	COPYSTR(WHOLESTR, WHOLESTR, (FNDPOS + 1), LENGTH(WHOLESTR) - 1);					
8645	1	54:3	40						
8646	1	54:3	40	PCONCAT2(BUILDSTR, INSERTTX, WHOLESTR);					
8647	1	54:3	46	WHOLESTR := BUILDSTR;					
8648	1	54:2	51	END;					
8649	1	54:0	51	END;					
8650	1	54:0	64						
8651	1	54:0	64						

8652	1	55:D	1	PROCEDURE INSERTST; (* VAR INSERTTX : TLONGSTR; P010037				
8653	1	55:D	3	VAR WHOLESTR : TLONGSTR *)				
8654	1	55:D	3					
8655	1	55:0	0	BEGIN				
8656	1	55:1	0	INSERT2(INSERTTX, WHOLESTR, '^')				
8657	1	55:0	3	END;				
8658	1	55:0	18					
8659	1	55:0	18					
8660	1	63:D	3	FUNCTION SEARCHBF; (* (VAR MP05 : TCACHEP; P01003F				
8661	1	63:D	6	VAR MP04 : TCACHEP;				
8662	1	63:D	6	MP03 : INTEGER) : TCACHEP ; *)				
8663	1	63:D	6					
8664	1	63:D	6	VAR				
8665	1	63:D	6	MP06 : ARRAY[0..1] OF TCACHEP;				
8666	1	63:D	8					
8667	1	63:D	8					
8668	1	63:0	0	BEGIN				
8669	1	63:1	0	MP06[0] := MP05;				
8670	1	63:1	8	MP06[1] := MP04;				
8671	1	63:1	16	UNITREAD(BASE12, MP06, 16, MP03);				
8672	1	63:1	26	MP05 := MP06[0];				
8673	1	63:1	34	MP04 := MP06[1];				
8674	1	63:1	42	SEARCHBF := MP05				
8675	1	63:0	42	END;				
8676	1	63:0	58					
8677	1	63:0	58	(* WIZ1.TEXT *)				
8678	1	63:0	58	(* \$I WIZ4A: WIZ2.TEXT *)				
8679	1	63:0	58					
8679	1	63:0	58	(* \$I WIZ4A: WIZ3.TEXT *)				
8680	1	63:0	58	(* WIZ3.TEXT *)				
8681	1	63:0	58					
8682	1	64:D	1	PROCEDURE READCAC; (* (VAR MP03 : TBUFFER; P010040				
8683	1	64:D	4	MP02 : INTEGER;				
8684	1	64:D	4	MP01 : BOOLEAN); *)				
8685	1	64:D	4					
8686	1	64:D	4	VAR				
8687	1	64:D	4	MP04 : TCACHEP;				
8688	1	64:D	5					
8689	1	64:0	0	BEGIN				
8690	1	64:1	0	MP04 := SEARCHBF(DSKCACHF, DSKCACHL, MP02);				
8691	1	64:1	11	IF MP04^.KEY <> MP02 THEN				
8692	1	64:2	17	BEGIN				
8693	1	64:3	17	UNITREAD(DRIVE1, MP04^.DATA, 512, MP02);				
8694	1	64:3	29	MP04^.KEY := MP02				
8695	1	64:2	30	END;				
8696	1	64:1	32	MOVELEFT(MP04^.DATA, MP03, 512);				
8697	1	64:1	43	IF MP01 THEN				
8698	1	64:2	46	EXIT(READCAC);				
8699	1	64:1	50	MP02 := MP02 + 1;				
8700	1	64:1	55	MP04 := SEARCHBF(DSKCACHF, DSKCACHL, MP02);				
8701	1	64:1	66	IF MP04^.KEY <> MP02 THEN				
8702	1	64:2	72	BEGIN				
8703	1	64:3	72	UNITREAD(DRIVE1, MP04^.DATA, 512, MP02);				
8704	1	64:3	84	MP04^.KEY := MP02				
8705	1	64:2	85	END;				
8706	1	64:1	87	MOVELEFT(MP04^.DATA, MP03[512], 512)				
8707	1	64:0	100	END;				

8708	1	64:0	112						
8709	1	64:0	112						
8710	1	65:D	1	PROCEDURE WRITECAC; (* (VAR MP03 : TBUFFER; P010041					
8711	1	65:D	4		MP02 : INTEGER;				
8712	1	65:D	4		MP01 : BOOLEAN); *)				
8713	1	65:D	4						
8714	1	65:D	4	VAR					
8715	1	65:D	4	MP04 : TCACHEP;					
8716	1	65:D	5						
8717	1	65:D	5	(* SEE READCAC ALSO *)					
8718	1	65:D	5						
8719	1	65:0	0	BEGIN					
8720	1	65:1	0	IF MP01 THEN					
8721	1	65:2	3	UNITWRITE(DRIVE1, MP03, 512, MP02)					
8722	1	65:1	13	ELSE					
8723	1	65:2	15	UNITWRITE(DRIVE1, MP03, 1024, MP02);					
8724	1	65:2	25						
8725	1	65:1	25	MP04 := SEARCHBF(DSKCACHF, DSKCACHL, MP02);					
8726	1	65:1	36	MP04^.KEY := MP02;					
8727	1	65:1	39	MOVELEFT(MP03, MP04^.DATA, 512);					
8728	1	65:1	50	IF MP01 THEN					
8729	1	65:2	53	EXIT(WRITECAC);					
8730	1	65:1	57	MP02 := MP02 + 1;					
8731	1	65:1	62	MP04 := SEARCHBF(DSKCACHF, DSKCACHL, MP02);					
8732	1	65:1	73	MP04^.KEY := MP02;					
8733	1	65:1	76	MOVELEFT(MP03[512], MP04^.DATA, 512)					
8734	1	65:0	89	END;					
8735	1	65:0	102						
8736	1	65:0	102						
8737	1	32:D	3	FUNCTION RAND; (* P010020; *)					
8738	1	32:D	3						
8739	1	32:D	3	VAR					
8740	1	32:D	3	MP03 : INTEGER;					
8741	1	32:D	4						
8742	1	32:0	0	BEGIN					
8743	1	32:1	0	UNITREAD(BASE12, MP03, 10, 0);					
8744	1	32:1	10	RAND := MP03					
8745	1	32:0	10	END;					
8746	1	32:0	26						
8747	1	32:0	26						
8748	1	31:D	3	FUNCTION KEYPRESS; (* : BOOLEAN *) (* P01001F *)					
8749	1	31:D	3						
8750	1	31:D	3	(* CALLED CHKKEYBD IN WIZARDRY III *)					
8751	1	31:D	3						
8752	1	31:D	3	VAR					
8753	1	31:D	3	PRESSED : INTEGER;					
8754	1	31:D	4						
8755	1	31:0	0	BEGIN					
8756	1	31:1	0	UNITREAD(BASE12, PRESSED, 11, 0);					
8757	1	31:1	10	KEYPRESS := (PRESSED = 1)					
8758	1	31:0	13	END;					
8759	1	31:0	28						
8760	1	31:0	28						
8761	1	2:D	1	PROCEDURE PRINTBEL; (* P010002 *)					
8762	1	2:D	1						
8763	1	2:0	0	BEGIN					
8764	1	2:1	0	BEEPSPKR(0)					

8765	1	2:0	1	END;					
8766	1	2:0	16						
8767	1	2:0	16						
8768	1	35:D	1	PROCEDURE DRAWSCR2; (* **** UNUSED **** : TWINDOWP *) (* P010023 *)					
8769	1	35:D	2						
8770	1	35:D	2	(* NOTE THE SMALL "BUG" WITH THE UNUSED MP01 PARAMETER.					
8771	1	35:D	2	THE CODE ACTUALLY DOES PASS WINCHAIN SO IT EXECUTES PROPERLY. *)					
8772	1	35:D	2						
8773	1	35:0	0	BEGIN					
8774	1	35:1	0	UNITWRITE(BASE12, WINCHAIN^, 2, 0)					
8775	1	35:0	9	END;					
8776	1	35:0	22						
8777	1	35:0	22						
8778	1	66:D	1	PROCEDURE DRAWSCR; (* SHOW: BOOLEAN; *) (* P010042 *)					
8779	1	66:D	2						
8780	1	66:0	0	BEGIN					
8781	1	66:1	0	IF SHOW THEN					
8782	1	66:2	3	UNITWRITE(BASE12, WINCHAIN^, 2, 0)					
8783	1	66:0	12	END;					
8784	1	66:0	24						
8785	1	66:0	24						
8786	1	67:D	1	PROCEDURE PRIORDER; (* P010043 *)					
8787	1	67:D	1						
8788	1	67:D	1	(* ORDER WINDOWS FROM HIGHER PRIORITY # TO LOWER PRIORITY # *)					
8789	1	67:D	1						
8790	1	67:D	1	VAR					
8791	1	67:D	1	NEXT : TWINDOWP;					
8792	1	67:D	2	CURRENT : TWINDOWP;					
8793	1	67:D	3	PREV : TWINDOWP;					
8794	1	67:D	4						
8795	1	67:0	0	BEGIN					
8796	1	67:1	0	PREV := NIL;					
8797	1	67:1	3	CURRENT := WINCHAIN;					
8798	1	67:1	6	WHILE CURRENT <> NIL DO					
8799	1	67:2	11	BEGIN					
8800	1	67:3	11	NEXT := CURRENT^.HEAD.NEXTW;					
8801	1	67:3	15	IF NEXT <> NIL THEN					
8802	1	67:4	20	BEGIN					
8803	1	67:5	20	IF (CURRENT^.HEAD.PRIORITY MOD 128) <					
8804	1	67:5	30	(NEXT^.HEAD.PRIORITY MOD 128) THEN					
8805	1	67:6	43	BEGIN					
8806	1	67:7	43	IF PREV = NIL THEN					
8807	1	67:8	48	WINCHAIN := NEXT					
8808	1	67:7	48	ELSE					
8809	1	67:8	53	PREV^.HEAD.NEXTW := NEXT;					
8810	1	67:7	56	CURRENT^.HEAD.NEXTW := NEXT^.HEAD.NEXTW;					
8811	1	67:7	60	NEXT^.HEAD.NEXTW := CURRENT;					
8812	1	67:7	63	CURRENT := NEXT					
8813	1	67:6	63	END;					
8814	1	67:4	66	END;					
8815	1	67:3	66	PREV := CURRENT;					
8816	1	67:3	69	CURRENT := CURRENT^.HEAD.NEXTW					
8817	1	67:2	70	END					
8818	1	67:0	73	END;					
8819	1	67:0	90						
8820	1	67:0	90						
8821	1	30:D	3	FUNCTION P01001E; (* MP03 : INTEGER) : INTEGER) *)					

8822	1	30:D	4					
8823	1	30:D	4	VAR				
8824	1	30:D	4	MP04 : INTEGER;				
8825	1	30:D	5					
8826	1	30:0	0	BEGIN				
8827	1	30:1	0	REPEAT				
8828	1	30:2	0	GETKEY;				
8829	1	30:2	2	IF INCHAR = CHR(CRETURN) THEN				
8830	1	30:3	7	INCHAR := '0';				
8831	1	30:2	10	MP04 := ORD(INCHAR) - ORD('0');				
8832	1	30:2	15	IF (MP04 >= 0) AND (MP04 <= MP03) THEN				
8833	1	30:3	24	BEGIN				
8834	1	30:4	24	P01001E := MP04;				
8835	1	30:4	27	EXIT(P01001E)				
8836	1	30:3	31	END				
8837	1	30:2	31	ELSE				
8838	1	30:3	33	PRINTBEL				
8839	1	30:1	33	UNTIL FALSE				
8840	1	30:1	35					
8841	1	30:0	35	END;				
8842	1	30:0	52					
8843	1	30:0	52					
8844	1	4:D	3	FUNCTION GETREC; (* DATATYPE : INTEGER; P010004				
8845	1	4:D	6	DATAINDX : INTEGER;				
8846	1	4:D	6	DATASIZE : INTEGER : INTEGER *)				
8847	1	4:D	6					
8848	1	4:D	6	VAR				
8849	1	4:D	6	MP06 : INTEGER;				
8850	1	4:D	7	RECSIZE : INTEGER;				
8851	1	4:D	8	MP08 : INTEGER;				
8852	1	4:D	9	BUFFADDR : INTEGER;				
8853	1	4:D	10	DSKBLOCK : INTEGER;				
8854	1	4:D	11	NEED1BLK : BOOLEAN; (* RECORD CROSS BLOCK BOUNDARY? *)				
8855	1	4:D	12					
8856	1	4:0	0	BEGIN				
8857	1	4:1	0	DSKBLOCK := SCENBLK + SCENARIO.BLOFF[DATATYPE];				
8858	1	4:1	12	BUFFADDR := 0;				
8859	1	4:1	15	RECSIZE := SCENARIO.RECSIZE[DATATYPE];				
8860	1	4:1	24	MP06 := 30000 DIV RECSIZE;				
8861	1	4:1	31	WHILE DATAINDX > 0 DO				
8862	1	4:2	36	BEGIN				
8863	1	4:3	36	IF DATAINDX > MP06 THEN				
8864	1	4:4	41	MP08 := MP06				
8865	1	4:3	41	ELSE				
8866	1	4:4	46	MP08 := DATAINDX;				
8867	1	4:3	49	DATAINDX := DATAINDX - MP08;				
8868	1	4:3	54	BUFFADDR := BUFFADDR + MP08 * RECSIZE;				
8869	1	4:3	61	DSKBLOCK := DSKBLOCK + BUFFADDR DIV 512;				
8870	1	4:3	70	BUFFADDR := BUFFADDR MOD 512				
8871	1	4:2	71	END;				
8872	1	4:2	79					
8873	1	4:1	79	NEED1BLK := (BUFFADDR + RECSIZE) <= 512;				
8874	1	4:1	88	IF (CACHEBL <> DSKBLOCK) OR (ONECACBL AND NOT NEED1BLK) THEN				
8875	1	4:2	100	BEGIN				
8876	1	4:3	100	IF CACHEWRI THEN				
8877	1	4:4	104	WRITECAC(BASE55B, CACHEBL, ONECACBL);				
8878	1	4:3	113	CACHEWRI := FALSE;				

8879	1	4:3	116	CACHEBL := DSKBLOCK;			
8880	1	4:3	119	ONECACBL := NEED1BLK;			
8881	1	4:3	122	READCAC(BASE55B, CACHEBL, ONECACBL)			
8882	1	4:2	129	END;			
8883	1	4:2	131				
8884	1	4:1	131	GETREC := BUFFADDR			
8885	1	4:0	131	END;			
8886	1	4:0	148				
8887	1	4:0	148				
8888	1	5:D	3	FUNCTION GETRECW; (* DATATYPE : INTEGER;			
8889	1	5:D	6	DATAINDX : INTEGER;			
8890	1	5:D	6	DATASIZE : INTEGER) : INTEGER *)			
8891	1	5:D	6				
8892	1	5:0	0	BEGIN			
8893	1	5:1	0	GETRECW := GETREC(DATATYPE, DATAINDX, DATASIZE);			
8894	1	5:1	9	CACHEWRI := TRUE			
8895	1	5:0	9	END;			
8896	1	5:0	24				
8897	1	5:0	24				
8898	1	68:D	1	PROCEDURE OVERUNDR(VAR FIRST : INTEGER; (* P010044 *)			
8899	1	68:D	2	VAR SECOND : INTEGER);			
8900	1	68:D	3				
8901	1	68:0	0	BEGIN			
8902	1	68:1	0	IF FIRST < 0 THEN			
8903	1	68:2	6	BEGIN			
8904	1	68:3	6	FIRST := FIRST + 10000;			
8905	1	68:3	14	SECOND := SECOND - 1			
8906	1	68:2	17	END			
8907	1	68:1	20	ELSE			
8908	1	68:2	22	IF FIRST >= 10000 THEN			
8909	1	68:3	30	BEGIN			
8910	1	68:4	30	FIRST := FIRST - 10000;			
8911	1	68:4	38	SECOND := SECOND + 1			
8912	1	68:3	41	END			
8913	1	68:0	44	END;			
8914	1	68:0	56				
8915	1	68:0	56				
8916	1	6:D	1	PROCEDURE ADDLONGS; (* FIRST : TWIZLONG; P010006			
8917	1	6:D	3	SECOND : TWIZLONG); *)			
8918	1	6:D	3				
8919	1	6:0	0	BEGIN			
8920	1	6:1	0	FIRST.LOW := FIRST.LOW + SECOND.LOW;			
8921	1	6:1	7	OVERUNDR(FIRST.LOW, FIRST.MID);			
8922	1	6:1	13				
8923	1	6:1	13	FIRST.MID := FIRST.MID + SECOND.MID;			
8924	1	6:1	22	OVERUNDR(FIRST.MID, FIRST.HIGH);			
8925	1	6:1	30				
8926	1	6:1	30	FIRST.HIGH := FIRST.HIGH + SECOND.HIGH			
8927	1	6:0	36	END;			
8928	1	6:0	52				
8929	1	6:0	52				
8930	1	7:D	1	PROCEDURE SUBLONGS; (* FIRST : TWIZLONG P010007;			
8931	1	7:D	3	SECOND : TWIZLONG) *)			
8932	1	7:D	3				
8933	1	7:0	0	BEGIN			
8934	1	7:1	0	FIRST.LOW := FIRST.LOW - SECOND.LOW;			
8935	1	7:1	7	OVERUNDR(FIRST.LOW, FIRST.MID);			

8936	1	7:1	13					
8937	1	7:1	13	FIRST.MID := FIRST.MID - SECOND.MID;				
8938	1	7:1	22	OVERUNDR(FIRST.MID, FIRST.HIGH);				
8939	1	7:1	30					
8940	1	7:1	30	FIRST.HIGH := FIRST.HIGH - SECOND.HIGH;				
8941	1	7:1	39					
8942	1	7:1	39	IF FIRST.HIGH < 0 THEN				
8943	1	7:2	45	FIRST.HIGH := 0				
8944	1	7:0	48	END;				
8945	1	7:0	62					
8946	1	7:0	62					
8947	1	69:D	1	PROCEDURE LONG2BCD(VAR LONGNUM : TWIZLONG; (* P010045 *)				
8948	1	69:D	2	VAR BCDNUM : TBCD);				
8949	1	69:D	3					
8950	1	69:D	3	VAR				
8951	1	69:D	3	DIGITX : INTEGER;				
8952	1	69:D	4					
8953	1	69:D	4					
8954	1	70:D	1	PROCEDURE INT2BCD(PARTLONG : INTEGER); (* P010046 *)				
8955	1	70:D	2					
8956	1	71:D	1	PROCEDURE PUTDIGIT(POWOF10 : INTEGER); (* P010047 *)				
8957	1	71:D	2					
8958	1	71:0	0	BEGIN (* PUTDIGIT *)				
8959	1	71:1	0	BCDNUM[DIGITX] := PARTLONG DIV POWOF10;				
8960	1	71:1	14	DIGITX := DIGITX + 1;				
8961	1	71:1	22	PARTLONG := PARTLONG MOD POWOF10				
8962	1	71:0	25	END; (* PUTDIGIT *)				
8963	1	71:0	42					
8964	1	71:0	42					
8965	1	70:0	0	BEGIN (* INT2BCD *)				
8966	1	70:1	0	PUTDIGIT(1000);				
8967	1	70:1	5	PUTDIGIT(100);				
8968	1	70:1	8	PUTDIGIT(10);				
8969	1	70:1	11	PUTDIGIT(1);				
8970	1	70:0	14	END; (* INT2BCD *)				
8971	1	70:0	26					
8972	1	70:0	26					
8973	1	69:0	0	BEGIN (* LONG2BCD *)				
8974	1	69:1	0	BCDNUM[0] := 0;				
8975	1	69:1	6	DIGITX := 1;				
8976	1	69:1	9	INT2BCD(LONGNUM.HIGH);				
8977	1	69:1	13	INT2BCD(LONGNUM.MID);				
8978	1	69:1	17	INT2BCD(LONGNUM.LOW)				
8979	1	69:0	19	END; (* LONG2BCD *)				
8980	1	69:0	34					
8981	1	69:0	34					
8982	1	72:D	1	PROCEDURE BCD2LONG(VAR LONGNUM : TWIZLONG; (* P010048 *)				
8983	1	72:D	2	VAR BCDNUM : TBCD);				
8984	1	72:D	3					
8985	1	72:D	3	VAR				
8986	1	72:D	3	DIGITX : INTEGER;				
8987	1	72:D	4					
8988	1	72:D	4					
8989	1	73:D	1	PROCEDURE BCD2INT(VAR LONGPART : INTEGER); (* P010049 *)				
8990	1	73:D	2					
8991	1	74:D	1	PROCEDURE GETDIGIT; (* P01004A *)				
8992	1	74:D	1					

8993	1	74:0	0	BEGIN (* GETDIGIT *)			
8994	1	74:1	0	LONGPART := (10 * LONGPART) + BCDNUM[DIGITX];			
8995	1	74:1	20	DIGITX := DIGITX + 1			
8996	1	74:0	23	END; (* GETDIGIT *)			
8997	1	74:0	40				
8998	1	74:0	40				
8999	1	73:0	0	BEGIN (* BCD2INT *)			
9000	1	73:1	0	LONGPART := 0;			
9001	1	73:1	3	GETDIGIT;			
9002	1	73:1	5	GETDIGIT;			
9003	1	73:1	7	GETDIGIT;			
9004	1	73:1	9	GETDIGIT			
9005	1	73:0	9	END; (* BCD2INT *)			
9006	1	73:0	24				
9007	1	73:0	24				
9008	1	72:0	0	BEGIN (* BCD2LONG *)			
9009	1	72:1	0	FILLCHAR(LONGNUM, 6, 0);			
9010	1	72:1	6	DIGITX := 1;			
9011	1	72:1	9	BCD2INT(LONGNUM.HIGH);			
9012	1	72:1	14	BCD2INT(LONGNUM.MID);			
9013	1	72:1	19	BCD2INT(LONGNUM.LOW)			
9014	1	72:0	20	END; (* BCD2LONG *)			
9015	1	72:0	34				
9016	1	72:0	34				
9017	1	8:D	1	PROCEDURE MULTLONG; (* P010008 *)			
9018	1	8:D	3				
9019	1	8:D	3	VAR			
9020	1	8:D	3	UNUSEDXX : INTEGER;			
9021	1	8:D	4	UNUSEDYY : INTEGER;			
9022	1	8:D	5	DIGITX : INTEGER;			
9023	1	8:D	6	BCDNUM : TBCD;			
9024	1	8:D	20				
9025	1	8:0	0	BEGIN			
9026	1	8:1	0	LONG2BCD(LONGNUM, BCDNUM);			
9027	1	8:1	5	FOR DIGITX := 12 DOWNT0 1 DO			
9028	1	8:2	17	BCDNUM[DIGITX] := BCDNUM[DIGITX] * INTNUM;			
9029	1	8:1	39	FOR DIGITX := 12 DOWNT0 1 DO			
9030	1	8:2	51	IF BCDNUM[DIGITX] > 9 THEN			
9031	1	8:3	61	BEGIN			
9032	1	8:4	61	BCDNUM[DIGITX - 1] := BCDNUM[DIGITX - 1] +			
9033	1	8:4	76	BCDNUM[DIGITX] DIV 10;			
9034	1	8:4	86	BCDNUM[DIGITX] := BCDNUM[DIGITX] MOD 10			
9035	1	8:3	97	END;			
9036	1	8:1	107	BCD2LONG(LONGNUM, BCDNUM)			
9037	1	8:0	110	END;			
9038	1	8:0	128				
9039	1	9:D	1	PROCEDURE DIVLONG; (* P010009 *)			
9040	1	9:D	3				
9041	1	9:D	3	VAR			
9042	1	9:D	3	NXTDIGIT : INTEGER;			
9043	1	9:D	4	DIGITX : INTEGER;			
9044	1	9:D	5	BCDNUM : TBCD;			
9045	1	9:D	19				
9046	1	9:0	0	BEGIN (* DIVLONG *)			
9047	1	9:1	0	LONG2BCD(LONGNUM, BCDNUM);			
9048	1	9:1	5	FOR DIGITX := 1 TO 12 DO			
9049	1	9:2	17	BEGIN			

9050	1	9:3	17	NXTDIGIT := BCDNUM[DIGITX] DIV INTNUM;		
9051	1	9:3	28	BCDNUM[DIGITX + 1] := BCDNUM[DIGITX + 1] +		
9052	1	9:3	43	(10 * (BCDNUM[DIGITX] - NXTDIGIT * INTNUM));		
9053	1	9:3	58	BCDNUM[DIGITX] := NXTDIGIT		
9054	1	9:2	63	END;		
9055	1	9:1	72	BCD2LONG(LONGNUM, BCDNUM)		
9056	1	9:0	75	END; (* DIVLONG *)		
9057	1	9:0	92			
9058	1	9:0	92			
9059	1	10:D	3	FUNCTION TESTLONG; (* P01000A *)		
9060	1	10:D	11			
9061	1	75:D	1	PROCEDURE LTEQGT(FIRSTX : INTEGER; (* P01004B *)		
9062	1	75:D	2	SECONDX : INTEGER);		
9063	1	75:D	3			
9064	1	75:0	0	BEGIN (* LTEQGT *)		
9065	1	75:1	0	IF FIRSTX = SECONDX THEN		
9066	1	75:2	5	EXIT(LTEQGT)		
9067	1	75:1	9	ELSE		
9068	1	75:2	11	BEGIN		
9069	1	75:3	11	IF FIRSTX > SECONDX THEN		
9070	1	75:4	16	TESTLONG := 1		
9071	1	75:3	16	ELSE		
9072	1	75:4	22	TESTLONG := -1		
9073	1	75:2	22	END;		
9074	1	75:1	27	EXIT(TESTLONG)		
9075	1	75:0	31	END; (* LTEQGT *)		
9076	1	75:0	44			
9077	1	75:0	44			
9078	1	10:0	0	BEGIN (* TESTLONG *)		
9079	1	10:1	0	LTEQGT(FIRST.HIGH, SECOND.HIGH);		
9080	1	10:1	14	LTEQGT(FIRST.MID, SECOND.MID);		
9081	1	10:1	18	LTEQGT(FIRST.LOW, SECOND.LOW);		
9082	1	10:1	22	TESTLONG := 0		
9083	1	10:0	22	END; (* TESTLONG *)		
9084	1	10:0	38			
9085	1	10:0	38			
9086	1	11:D	1	PROCEDURE PRNTLONG; (* PRNTWIN: TWINDOWP; P01000B		
9087	1	11:D	6	LONGNUM: TWIZLONG P01000B *)		
9088	1	11:D	6			
9089	1	11:D	6	VAR		
9090	1	11:D	6	MP06 : INTEGER;		
9091	1	11:D	7	MP07 : STRING;		
9092	1	11:D	48			
9093	1	11:D	48			
9094	1	11:0	0	BEGIN		
9095	1	11:1	0	P010032(LONGNUM, MP07);		
9096	1	11:1	11	FOR MP06 := LENGTH(MP07) TO 11 DO		
9097	1	11:2	26	PRPICCH(PRNTWIN, ' ');		
9098	1	11:1	37	PRPICMB(PRNTWIN, MP07)		
9099	1	11:0	40	END;		
9100	1	11:0	56			
9101	1	11:0	56			
9102	1	12:D	1	PROCEDURE GETKEY; (* P01000C *)		
9103	1	12:D	1			
9104	1	12:D	1	(* THIS IS A MODIFIED GETKEY. SEE WIZ III. *)		
9105	1	12:D	1			
9106	1	12:D	1	VAR		

9107	1	12:D	1	MP01 : PACKED RECORD CASE INTEGER OF			
9108	1	12:D	1	1: (I: INTEGER);			
9109	1	12:D	1	2: (S: STRING[1]);			
9110	1	12:D	1	END;			
9111	1	12:D	2				
9112	1	12:D	2	MP02 : INTEGER;			
9113	1	12:D	3	MP03 : TWIZLONG;			
9114	1	12:D	6				
9115	1	12:0	0	BEGIN			
9116	1	12:1	0	REPEAT			
9117	1	12:2	0	WHILE NOT KEYPRESS DO			
9118	1	12:3	7	MP02 := RAND;			
9119	1	12:2	15	UNITREAD(2, MP01, 1, 0);			
9120	1	12:2	24	INCHAR := MP01.S[0];			
9121	1	12:2	30	IF (INCHAR > '_') AND (ORD(INCHAR) < 127) THEN			
9122	1	12:3	39	INCHAR := CHR(ORD(INCHAR) - 32);			
9123	1	12:1	44	UNTIL (ORD(INCHAR) < 91) OR			
9124	1	12:1	47	(ORD(INCHAR) > 127);			
9125	1	12:1	53				
9126	1	12:1	53	IF CHARACTER[6].EXP.LOW +			
9127	1	12:1	61	CHARACTER[6].EXP.MID +			
9128	1	12:1	70	CHARACTER[6].EXP.HIGH > 0 THEN			
9129	1	12:2	83	BEGIN			
9130	1	12:3	83	FILLCHAR(MP03, 6, 0);			
9131	1	12:3	90	MP03.LOW := 1;			
9132	1	12:3	93	SUBLONGS(CHARACTER[6].EXP, MP03)			
9133	1	12:2	103	END;			
9134	1	12:0	105	END;			
9135	1	12:0	122				
9136	1	12:0	122				
9137	1	13:D	1	PROCEDURE GETCR; (* P01000D *)			
9138	1	13:D	1				
9139	1	13:0	0	BEGIN			
9140	1	13:1	0	REPEAT			
9141	1	13:2	0	GETKEY;			
9142	1	13:1	2	UNTIL INCHAR = CHR(CRETURN)			
9143	1	13:0	4	END;			
9144	1	13:0	22				
9145	1	13:0	22				
9146	1	15:D	1	PROCEDURE PAUSE1; (* P01000F *)			
9147	1	15:D	1				
9148	1	15:0	0	BEGIN (* PAUSE1 *)			
9149	1	15:1	0	IF TIMEDLAY > 0 THEN			
9150	1	15:2	6	UNITWRITE(BASE12, TIMEDLAY, 19, TIMEDLAY)			
9151	1	15:0	17	END; (* PAUSE1 *)			
9152	1	15:0	30				
9153	1	15:0	30				
9154	1	16:D	1	PROCEDURE PAUSE2; (* P010010 *)			
9155	1	16:D	1				
9156	1	16:D	1	VAR			
9157	1	16:D	1	MP01 : INTEGER;			
9158	1	16:D	2				
9159	1	16:0	0	BEGIN (* PAUSE2 *)			
9160	1	16:1	0	MP01 := 20;			
9161	1	16:1	3				
9162	1	16:1	3	(* UPDATE RNG AND LOOP AWHILE WAITING FOR KEYBOARD INPUT, THEN RTS *)			
9163	1	16:1	3	UNITWRITE(BASE12, MP01, 19, MP01)			

9164	1	16:0	13	END; (* PAUSE2 *)				
9165	1	16:0	26					
9166	1	16:0	26					
9167	1	14:D	1	PROCEDURE CENTSTR; (* MP02: TWINDOWP; MP01: TLONGSTR *) (* P01000E *)				
9168	1	14:D	131					
9169	1	14:D	131	VAR				
9170	1	14:D	131	MP83 : INTEGER;				
9171	1	14:D	132					
9172	1	14:0	0	BEGIN				
9173	1	14:1	0	MP83 := MP02^.HEAD.VCURSOR;				
9174	1	14:1	14	MVCURSOR(MP02,				
9175	1	14:1	15	(MP02^.HEAD.HSIZE - 2) DIV 2) - (1 + MBSTRLEN(MP01)) DIV 2,				
9176	1	14:1	36	MP02^.HEAD.VCURSOR);				
9177	1	14:1	44	PRPICMB(MP02, MP01);				
9178	1	14:1	49	MVCURSOR(MP02, 0, MP83 + 1)				
9179	1	14:0	56	END;				
9180	1	14:0	70					
9181	1	14:0	70					
9182	1	14:0	70	(* \$I WIZ4A: WIZ3.TEXT *)				
9183	1	14:0	70					
9183	1	14:0	70	(* \$I WIZ4A: WIZ4.TEXT *)				
9184	1	14:0	70					
9185	1	14:0	70	(* WIZ4 *)				
9186	1	14:0	70					
9187	1	76:D	1	PROCEDURE GARBMM; (* P01004C *)				
9188	1	76:D	1					
9189	1	76:D	1	VAR				
9190	1	76:D	1	CHAIN2 : ^TMEMORY;				
9191	1	76:D	2	B4NOTINU : ^TMEMORY;				
9192	1	76:D	3	CHAINPTR : ^TMEMORY;				
9193	1	76:D	4					
9194	1	76:D	4					
9195	1	76:0	0	BEGIN				
9196	1	76:1	0	DOGARBMM := FALSE;				
9197	1	76:1	3	CHAINPTR := MEMHEAD;				
9198	1	76:1	7	B4NOTINU := NIL;				
9199	1	76:1	10	WHILE CHAINPTR <> NIL DO				
9200	1	76:2	15	BEGIN				
9201	1	76:3	15	IF NOT CHAINPTR^.INUSE THEN				
9202	1	76:4	24	BEGIN				
9203	1	76:5	24	IF CHAINPTR^.NEXT <> NIL THEN				
9204	1	76:6	30	BEGIN				
9205	1	76:7	30	CHAIN2 := CHAINPTR^.NEXT;				
9206	1	76:7	34	WHILE (CHAIN2 <> NIL) AND (NOT CHAIN2^.INUSE) DO				
9207	1	76:8	47	BEGIN				
9208	1	76:9	47	CHAINPTR^.NEXT := CHAIN2^.NEXT;				
9209	1	76:9	51	CHAINPTR^.SIZE := CHAINPTR^.SIZE + CHAIN2^.SIZE;				
9210	1	76:9	70	CHAIN2 := CHAIN2^.NEXT				
9211	1	76:8	71	END				
9212	1	76:6	74	END;				
9213	1	76:5	76	IF CHAINPTR^.NEXT = NIL THEN				
9214	1	76:6	82	BEGIN				
9215	1	76:7	82	IF B4NOTINU = NIL THEN				
9216	1	76:8	87	MEMHEAD := NIL				
9217	1	76:7	87	ELSE				
9218	1	76:8	92	B4NOTINU^.NEXT := NIL;				
9219	1	76:7	95	RELEASE (CHAINPTR)				

9220	1	76:6	97	END				
9221	1	76:4	99	END;				
9222	1	76:3	99	B4NOTINU := CHAINPTR;				
9223	1	76:3	102	CHAINPTR := CHAINPTR^.NEXT				
9224	1	76:2	103	END;				
9225	1	76:0	108	END;				
9226	1	76:0	124					
9227	1	76:0	124					
9228	1	77:D	3	FUNCTION GETMEM(MEMSIZE: INTEGER) : TWINDOWP; (* P01004D *)				
9229	1	77:D	4					
9230	1	77:D	4	VAR				
9231	1	77:D	4	SPLITBUF : ^TMEMORY;				
9232	1	77:D	5	MEMCHAIN : ^TMEMORY;				
9233	1	77:D	6	MP06 : RECORD CASE INTEGER OF				
9234	1	77:D	6	1: (PWIN:TWINDOWP);				
9235	1	77:D	6	2: (I: INTEGER);				
9236	1	77:D	6	END;				
9237	1	77:D	7	PTR2INT : TMEEMOVER;				
9238	1	77:D	8					
9239	1	77:0	0	BEGIN				
9240	1	77:1	0	IF DOGARBM THEN				
9241	1	77:2	4	GARBMEM;				
9242	1	77:1	6	MEMSIZE := MEMSIZE + SIZEOF(TMEMORY);				
9243	1	77:1	11	MEMCHAIN :=MEMHEAD;				
9244	1	77:1	15	WHILE MEMCHAIN <> NIL DO				
9245	1	77:2	20	BEGIN				
9246	1	77:3	20	IF NOT MEMCHAIN^.INUSE THEN				
9247	1	77:4	29	IF MEMCHAIN^.SIZE >= MEMSIZE THEN				
9248	1	77:5	39	BEGIN				
9249	1	77:6	39	IF (MEMCHAIN^.SIZE - MEMSIZE) > SIZEOF(TMEMORY) THEN				
9250	1	77:7	51	BEGIN				
9251	1	77:8	51	PTR2INT.PMEM := MEMCHAIN;				
9252	1	77:8	54	PTR2INT.I := PTR2INT.I + MEMSIZE;				
9253	1	77:8	59	SPLITBUF := PTR2INT.PMEM;				
9254	1	77:8	62	SPLITBUF^.NEXT := MEMCHAIN^.NEXT;				
9255	1	77:8	66	SPLITBUF^.SIZE := MEMCHAIN^.SIZE - MEMSIZE;				
9256	1	77:8	80	SPLITBUF^.INUSE := FALSE;				
9257	1	77:8	87	MEMCHAIN^.SIZE := MEMSIZE;				
9258	1	77:8	94	MEMCHAIN^.NEXT := SPLITBUF				
9259	1	77:7	95	END;				
9260	1	77:6	97	MEMCHAIN^.INUSE := TRUE;				
9261	1	77:6	104	PTR2INT.PMEM := MEMCHAIN;				
9262	1	77:6	107	MP06.I := PTR2INT.I + SIZEOF(TMEMORY);				
9263	1	77:6	112	GETMEM := MP06.PWIN;				
9264	1	77:6	115	EXIT(GETMEM)				
9265	1	77:5	119	END;				
9266	1	77:3	119	SPLITBUF := MEMCHAIN;				
9267	1	77:3	122	MEMCHAIN := MEMCHAIN^.NEXT				
9268	1	77:2	123	END;				
9269	1	77:1	128	MARK(MEMCHAIN);				
9270	1	77:1	132	IF MEMHEAD = NIL THEN				
9271	1	77:2	138	MEMHEAD := MEMCHAIN				
9272	1	77:1	138	ELSE				
9273	1	77:2	143	SPLITBUF^.NEXT := MEMCHAIN;				
9274	1	77:1	146	MEMCHAIN^.NEXT := NIL;				
9275	1	77:1	149	MEMCHAIN^.SIZE := MEMSIZE;				
9276	1	77:1	156	MEMCHAIN^.INUSE := TRUE;				

9277	1	77:1	163	PTR2INT.PMEM := MEMCHAIN;			
9278	1	77:1	166	MP06.I := PTR2INT.I + SIZEOF(TMEMORY);			
9279	1	77:1	171	GETMEM := MP06.PWIN;			
9280	1	77:1	174	PTR2INT.I := PTR2INT.I + MEMSIZE;			
9281	1	77:1	179	RELEASE(PTR2INT.PMEM)			
9282	1	77:0	181	END;			
9283	1	77:0	198				
9284	1	77:0	198				
9285	1	78:D	1	PROCEDURE RELMEM(RELWIN : TWINDOWP); (* P01004E *)			
9286	1	78:D	2				
9287	1	78:D	2	VAR			
9288	1	78:D	2	BUFHEAD : TMEMORYP;			
9289	1	78:D	3	CHAINPTR : TMEMORYP;			
9290	1	78:D	4	PTR2INT : TMEMOVER;			
9291	1	78:D	5	MP05 : TMEMOVER;			
9292	1	78:D	6				
9293	1	78:0	0	BEGIN			
9294	1	78:1	0	IF MEMHEAD = NIL THEN			
9295	1	78:2	6	EXIT(RELMEM);			
9296	1	78:1	10	CHAINPTR := MEMHEAD;			
9297	1	78:1	14	PTR2INT.PWIN := RELWIN;			
9298	1	78:1	17	MP05.I := PTR2INT.I - SIZEOF(TMEMORY);			
9299	1	78:1	22	BUFHEAD := MP05.PMEM;			
9300	1	78:1	25	WHILE CHAINPTR <> BUFHEAD DO			
9301	1	78:2	30	BEGIN			
9302	1	78:3	30	CHAINPTR := CHAINPTR^.NEXT;			
9303	1	78:3	34	IF CHAINPTR = NIL THEN			
9304	1	78:4	39	EXIT(RELMEM)			
9305	1	78:2	43	END;			
9306	1	78:1	45	CHAINPTR^.INUSE := FALSE;			
9307	1	78:1	52	DOGARBMM := TRUE			
9308	1	78:0	52	END;			
9309	1	78:0	70				
9310	1	78:0	70				
9311	1	17:D	3	FUNCTION GETWIN; (* P010011 *)			
9312	1	17:D	9	(* HPOS: INTEGER;			
9313	1	17:D	9	VPOS: INTEGER;			
9314	1	17:D	9	HSIZE: INTEGER;			
9315	1	17:D	9	VSIZE: INTEGER;			
9316	1	17:D	9	PRIORITY: INTEGER;			
9317	1	17:D	9	SHOW: BOOLEAN) : TWINDOWP; *)			
9318	1	17:D	9				
9319	1	17:D	9	VAR			
9320	1	17:D	9	NEWWIN : TWINDOWP;			
9321	1	17:D	10	BUFSIZE : INTEGER;			
9322	1	17:D	11				
9323	1	17:0	0	BEGIN			
9324	1	17:1	0	BUFSIZE := SIZEOF(TWINHEAD) + 2 * (HSIZE - 2) * (VSIZE - 2);			
9325	1	17:1	13	NEWWIN := GETMEM(BUFSIZE);			
9326	1	17:1	20	IF NEWWIN <> NIL THEN			
9327	1	17:2	25	BEGIN			
9328	1	17:3	25	NEWWIN^.HEAD.NEXTW := WINCHAIN;			
9329	1	17:3	28	WINCHAIN := NEWWIN;			
9330	1	17:3	31	NEWWIN^.HEAD.HPOS := HPOS;			
9331	1	17:3	38	NEWWIN^.HEAD.VPOS := VPOS;			
9332	1	17:3	45	NEWWIN^.HEAD.HSIZE := HSIZE;			
9333	1	17:3	52	NEWWIN^.HEAD.VSIZE := VSIZE;			

9334	1	17:3	59	NEWWIN^.HEAD.HCURSOR := 0;			
9335	1	17:3	66	NEWWIN^.HEAD.VCURSOR := 0;			
9336	1	17:3	73	NEWWIN^.HEAD.PRIORITY := PRIORITY + 1;			
9337	1	17:3	82	FILLCHAR(NEWWIN^.DATA, BUFSIZE - SIZEOF(TWINHEAD), ' ');			
9338	1	17:3	92	PRIORDER;			
9339	1	17:3	94	DRAWSCR(SHOW)			
9340	1	17:2	95	END			
9341	1	17:1	97	ELSE			
9342	1	17:2	99	NEWWIN := NIL;			
9343	1	17:1	102	GETWIN := NEWWIN			
9344	1	17:0	102	END;			
9345	1	17:0	118				
9346	1	17:0	118				
9347	1	18:D	1	PROCEDURE DELWIN;		(* P010012 *)	
9348	1	18:D	3		(* VAR WIN2DEL : TWINDOWP;		
9349	1	18:D	3		REDRAW : BOOLEAN *)		
9350	1	18:D	3				
9351	1	18:D	3	VAR			
9352	1	18:D	3	CHAINPTR : TWINDOWP;			
9353	1	18:D	4				
9354	1	18:0	0	BEGIN			
9355	1	18:1	0	IF WINCHAIN = NIL THEN			
9356	1	18:2	5	EXIT(DELWIN)			
9357	1	18:1	9	ELSE			
9358	1	18:2	11	IF WIN2DEL = WINCHAIN THEN			
9359	1	18:3	17	WINCHAIN := WINCHAIN^.HEAD.NEXTW			
9360	1	18:2	18	ELSE			
9361	1	18:3	23	BEGIN			
9362	1	18:4	23	CHAINPTR := WINCHAIN;			
9363	1	18:4	26	WHILE CHAINPTR^.HEAD.NEXTW <> WIN2DEL DO			
9364	1	18:5	33	CHAINPTR := CHAINPTR^.HEAD.NEXTW;			
9365	1	18:4	39	CHAINPTR^.HEAD.NEXTW := WIN2DEL^.HEAD.NEXTW;			
9366	1	18:3	44	END;			
9367	1	18:1	44	RELMEM(WIN2DEL);			
9368	1	18:1	48	WIN2DEL := NIL;			
9369	1	18:1	51	DRAWSCR(REDRAW)			
9370	1	18:0	52	END;			
9371	1	18:0	68				
9372	1	18:0	68				
9373	1	19:D	1	PROCEDURE SETWNPRI; (* PRIWIN : TWINDOWP;		P010013	
9374	1	19:D	4		PRIORITY : INTEGER;		
9375	1	19:D	4		REDRAW : BOOLEAN); *)		
9376	1	19:D	4				
9377	1	19:D	4	VAR			
9378	1	19:D	4	UNUSED : ARRAY[0..2] OF INTEGER;			
9379	1	19:D	7				
9380	1	19:0	0	BEGIN			
9381	1	19:1	0	PRIWIN^.HEAD.PRIORITY := PRIORITY + 1;			
9382	1	19:1	9	PRIORDER;			
9383	1	19:1	11	DRAWSCR(REDRAW)			
9384	1	19:0	12	END;			
9385	1	19:0	26				
9386	1	19:0	26				
9387	1	23:D	1	PROCEDURE CLEARWIN; (* MP02 : TWINDOWP; *)		(* P010017 *)	
9388	1	23:D	3		(* MP01 : BOOLEAN *)		
9389	1	23:D	3				
9390	1	23:0	0	BEGIN			

9391	1	23:0	0					
9392	1	23:1	0	FILLCHAR(MP02^.DATA[0],				
9393	1	23:1	4	(2 * (MP02^.HEAD.HSIZE - 2)) *				
9394	1	23:1	14	(MP02^.HEAD.VSIZE - 2),				
9395	1	23:1	23	' ');				
9396	1	23:1	26	MP02^.HEAD.HCURSOR := 0;				
9397	1	23:1	33	MP02^.HEAD.VCURSOR := 0;				
9398	1	23:1	40	IF MP01 THEN				
9399	1	23:2	43	DRAWSCR2(WINCHAIN)				
9400	1	23:1	44	ELSE				
9401	1	23:2	48	UNITWRITE(BASE12, MP02^, 3, 0)				
9402	1	23:0	57	END;				
9403	1	23:0	70					
9404	1	23:0	70					
9405	1	24:D	1	PROCEDURE CLRRECT; (* CLRWIN : TWINDOWP;	P010018			
9406	1	24:D	6	HOR1 : INTEGER;				
9407	1	24:D	6	VER1 : INTEGER;				
9408	1	24:D	6	HOR2 : INTEGER;				
9409	1	24:D	6	VER2 : INTEGER) *)				
9410	1	24:D	6					
9411	1	24:D	6	VAR				
9412	1	24:D	6	BYTS2CLR : INTEGER;				
9413	1	24:D	7	HPOS : INTEGER;				
9414	1	24:D	8	HORBYTES : INTEGER;				
9415	1	24:D	9	LINE : INTEGER;				
9416	1	24:D	10	UNUSED : INTEGER;				
9417	1	24:D	11					
9418	1	79:D	1	PROCEDURE ADJUSTHV(ADJWIN: TWINDOWP; (* P01004F *)				
9419	1	79:D	2	VAR HPOS : INTEGER;				
9420	1	79:D	3	VAR VPOS : INTEGER);				
9421	1	79:D	4					
9422	1	79:0	0	BEGIN (* ADJUSTHV *)				
9423	1	79:1	0	IF HPOS < 0 THEN				
9424	1	79:2	6	HPOS := 0				
9425	1	79:1	7	ELSE				
9426	1	79:2	11	IF HPOS > (ADJWIN^.HEAD.HSIZE - 3) THEN				
9427	1	79:3	24	HPOS := ADJWIN^.HEAD.HSIZE - 3;				
9428	1	79:3	34					
9429	1	79:1	34	IF VPOS < 0 THEN				
9430	1	79:2	40	VPOS := 0				
9431	1	79:1	41	ELSE				
9432	1	79:2	45	IF VPOS > (ADJWIN^.HEAD.VSIZE - 3) THEN				
9433	1	79:3	58	VPOS := ADJWIN^.HEAD.VSIZE - 3				
9434	1	79:0	65	END; (* ADJUSTHV *)				
9435	1	79:0	80					
9436	1	79:0	80					
9437	1	24:0	0	BEGIN (* CLRRECT *)				
9438	1	24:1	0	ADJUSTHV(CLRWIN, HOR1, VER1);				
9439	1	24:1	7	HOR2 := HOR1 + HOR2 - 1;				
9440	1	24:1	14	VER2 := VER1 + VER2 - 1;				
9441	1	24:1	21	ADJUSTHV(CLRWIN, HOR2, VER2);				
9442	1	24:1	28	HORBYTES := 2 * (CLRWIN^.HEAD.HSIZE - 2); (* BYTES PER ENTIRE ROW *)				
9443	1	24:1	40	HPOS := HORBYTES * VER1 + HOR1 + HOR1; (* HORIZONTAL POSITION *)				
9444	1	24:1	49	BYTS2CLR := 2 * (HOR2 - HOR1 + 1); (* # BYTES TO CLEAR PER ROW *)				
9445	1	24:1	58	FOR LINE := VER1 TO VER2 DO				
9446	1	24:2	69	BEGIN				
9447	1	24:3	69	FILLCHAR(CLRWIN^.DATA[HPOS], BYTS2CLR, ' ');				

9448	1	24:3	77	HPOS := HPOS + HORBYTES			
9449	1	24:2	78	END;			
9450	1	24:1	89	UNITWRITE(BASE12, CLRWIN^, 3, 0)			
9451	1	24:0	98	END; (* CLRRECT *)			
9452	1	24:0	112				
9453	1	24:0	112				
9454	1	25:D	1	PROCEDURE PROTWIN; (* PROTWIN : TWINDOWP; P010019			
9455	1	25:D	3	REDRAW : BOOLEAN); *)			
9456	1	25:D	3				
9457	1	25:0	0	BEGIN			
9458	1	25:1	0	PROTWIN^.HEAD.PRIORITY := 128 + (PROTWIN^.HEAD.PRIORITY MOD 128);			
9459	1	25:1	20	DRAWSCR(REDRAW)			
9460	1	25:0	21	END;			
9461	1	25:0	36				
9462	1	25:0	36				
9463	1	26:D	1	PROCEDURE UNPROWIN; (* MP02 : TWINDOWP; P01001A			
9464	1	26:D	3	MP01 : BOOLEAN *)			
9465	1	26:D	3				
9466	1	26:0	0	BEGIN			
9467	1	26:1	0	MP02^.HEAD.PRIORITY := MP02^.HEAD.PRIORITY MOD 128;			
9468	1	26:1	16	DRAWSCR(MP01)			
9469	1	26:0	17	END;			
9470	1	26:0	32				
9471	1	26:0	32				
9472	1	20:D	1	PROCEDURE MVCURSOR; (* MVWIN : TWINDOWP P010014			
9473	1	20:D	4	HPOS : INTEGER;			
9474	1	20:D	4	VPOS : INTEGER *)			
9475	1	20:D	4				
9476	1	20:0	0	BEGIN			
9477	1	20:1	0	IF HPOS < 0 THEN			
9478	1	20:2	5	HPOS := 0			
9479	1	20:1	5	ELSE			
9480	1	20:2	10	BEGIN			
9481	1	20:3	10	IF HPOS >= MVWIN^.HEAD.HSIZE - 2 THEN			
9482	1	20:4	22	BEGIN			
9483	1	20:5	22	HPOS := 0;			
9484	1	20:5	25	VPOS := VPOS + 1			
9485	1	20:4	26	END;			
9486	1	20:2	30	END;			
9487	1	20:2	30				
9488	1	20:1	30	IF VPOS < 0 THEN			
9489	1	20:2	35	VPOS := 0			
9490	1	20:1	35	ELSE			
9491	1	20:2	40	IF VPOS >= MVWIN^.HEAD.VSIZE - 2 THEN			
9492	1	20:3	52	VPOS := 0;			
9493	1	20:3	55				
9494	1	20:1	55	MVWIN^.HEAD.HCURSOR := HPOS;			
9495	1	20:1	62	MVWIN^.HEAD.VCURSOR := VPOS			
9496	1	20:0	67	END;			
9497	1	20:0	82				
9498	1	20:0	82				
9499	1	33:D	1	PROCEDURE PRPICCH; (* MYWIN : TWINDOWP; P010021 *)			
9500	1	33:D	3	(* VAR (?) MYCHAR : STRING); CHAR(?) *)			
9501	1	33:D	3				
9502	1	33:D	3	(* PRINT PICTURE CHAR *)			
9503	1	33:D	3				
9504	1	33:0	0	BEGIN			

9505	1	33:1	0	UNITWRITE(BASE12, MYWIN^, 4, ORD(MYCHAR))					
9506	1	33:0	9	END;					
9507	1	33:0	22						
9508	1	33:0	22						
9509	1	34:D	1	PROCEDURE PRPICMB; (* MYWIN : TWINDOWP; P010022 *)					
9510	1	34:D	131	(* MYMBCH : TLONGSTR; *)					
9511	1	34:D	131						
9512	1	34:D	131	(* PRINT PICTURE MULTI BYTE CHAR *)					
9513	1	34:D	131						
9514	1	34:D	131	VAR					
9515	1	34:D	131	MP83 : INTEGER;					
9516	1	34:D	132	MP84 : INTEGER;					
9517	1	34:D	133	MP85 : CHAR;					
9518	1	34:D	134	MP86 : RECORD CASE INTEGER OF					
9519	1	34:D	134	1: (I: INTEGER);					
9520	1	34:D	134	2: (C: PACKED ARRAY[0..1] OF CHAR);					
9521	1	34:D	134	END;					
9522	1	34:D	135						
9523	1	34:0	0	BEGIN					
9524	1	34:1	0	IF BSTROPS THEN					
9525	1	34:2	10	BEGIN					
9526	1	34:3	10	IF LENGTH(MYMBCH) <> 0 THEN					
9527	1	34:4	18	UNITWRITE(BASE12, MYWIN^, 30, GETADDR(MYMBCH));					
9528	1	34:3	32	EXIT(PRPICMB)					
9529	1	34:2	36	END;					
9530	1	34:2	36						
9531	1	34:1	36	MP83 := 1;					
9532	1	34:1	40	MP84 := LENGTH(MYMBCH);					
9533	1	34:1	47	WHILE MP83 <= MP84 DO					
9534	1	34:2	56	BEGIN					
9535	1	34:3	56	MP85 := MYMBCH[MP83];					
9536	1	34:3	65	IF (ORD(MP85) >= 129) AND (ORD(MP85) <= 159) THEN					
9537	1	34:4	82	BEGIN					
9538	1	34:5	82	MP86.C[1] := MP85;					
9539	1	34:5	90	MP83 := MP83 + 1;					
9540	1	34:5	98	MP86.C[0] := MYMBCH[MP83];					
9541	1	34:5	109	UNITWRITE(BASE12, MYWIN^, 4, MP86.I)					
9542	1	34:4	120	END					
9543	1	34:3	120	ELSE					
9544	1	34:4	122	BEGIN					
9545	1	34:5	122	UNITWRITE(BASE12, MYWIN^, 4, ORD(MP85))					
9546	1	34:4	133	END;					
9547	1	34:3	133	MP83 := MP83 + 1					
9548	1	34:2	136	END;					
9549	1	34:0	143	END;					
9550	1	34:0	158						
9551	1	34:0	158						
9552	1	21:D	1	PROCEDURE PRINTNUM; (* PRWIN : TWINDOWP; P010015					
9553	1	21:D	4	NUM : INTEGER;					
9554	1	21:D	4	FIELDSZ : INTEGER); *)					
9555	1	21:D	4						
9556	1	21:D	4	VAR					
9557	1	21:D	4	NUMSTR : STRING;					
9558	1	21:D	45						
9559	1	21:D	45						
9560	1	80:D	1	PROCEDURE PRCHAR(ACHAR : CHAR); (* P010050 *)					
9561	1	80:D	2						

9562	1	80:0	0	BEGIN (* PRCHAR *)				
9563	1	80:1	0	PRPICCH(PRWIN, ACHAR);				
9564	1	80:1	6	FIELDSZ := FIELDSZ - 1				
9565	1	80:0	9	END; (* PRCHAR *)				
9566	1	80:0	26					
9567	1	80:0	26					
9568	1	21:0	0	BEGIN (* PRINTNUM *)				
9569	1	21:1	0	INT2STR(NUM, NUMSTR);				
9570	1	21:1	5	IF LENGTH(NUMSTR) > FIELDSZ THEN				
9571	1	21:2	13	BEGIN				
9572	1	21:3	13	IF NUM < 0 THEN				
9573	1	21:4	18	PRCHAR('-');				
9574	1	21:3	21	WHILE FIELDSZ > 0 DO				
9575	1	21:4	26	PRCHAR('*')				
9576	1	21:2	27	END				
9577	1	21:1	31	ELSE				
9578	1	21:2	33	BEGIN				
9579	1	21:3	33	WHILE FIELDSZ > LENGTH(NUMSTR) DO				
9580	1	21:4	41	PRCHAR(' ');				
9581	1	21:3	46	PRPICMB(PRWIN, NUMSTR)				
9582	1	21:2	49	END				
9583	1	21:0	51	END; (* PRINTNUM *)				
9584	1	21:0	68					
9585	1	21:0	68					
9586	1	22:D	1	PROCEDURE PRINTCR; (* MP01 : TWINDOWP *) (* P010016 *)				
9587	1	22:D	2					
9588	1	22:0	0	BEGIN				
9589	1	22:1	0	MP01^.HEAD.VCURSOR := MP01^.HEAD.VCURSOR + 1;				
9590	1	22:1	14	MP01^.HEAD.HCURSOR := 0;				
9591	1	22:1	21	IF MP01^.HEAD.VCURSOR >= (MP01^.HEAD.VSIZE - 2) THEN				
9592	1	22:2	38	MP01^.HEAD.VCURSOR := 0				
9593	1	22:0	43	END;				
9594	1	22:0	58					
9595	1	22:0	58					
9596	1	22:0	58					
9597	1	22:0	58					
9598	1	27:D	1	PROCEDURE SOLICIT; (* PRWIN : TWINDOWP; P01001B				
9599	1	27:D	4	VAR REPLYSTR : TLONGSTR;				
9600	1	27:D	4	MAXSTR : INTEGER); *				
9601	1	27:D	4					
9602	1	27:D	4	(* IN WIZ III THIS IS CALLED GETSTR() *)				
9603	1	27:D	4					
9604	1	27:D	4	VAR				
9605	1	27:D	4	STRPOS : INTEGER;				
9606	1	27:D	5	VPOS : INTEGER;				
9607	1	27:D	6	HPOS : INTEGER;				
9608	1	27:D	7	MB2 : STRING[2];				
9609	1	27:D	9					
9610	1	27:D	9					
9611	1	81:D	1	PROCEDURE BACKSPAC; (* P010051 *)				
9612	1	81:D	1					
9613	1	81:0	0	BEGIN (* BACKSPAC *)				
9614	1	81:1	0	STRPOS := STRPOS - 1;				
9615	1	81:1	8	IF (REPLYSTR[STRPOS] >= CHR(129)) AND				
9616	1	81:1	19	(REPLYSTR[STRPOS] <= CHR(159)) THEN				
9617	1	81:2	33	STRPOS := STRPOS - 1;				
9618	1	81:1	41	HPOS := HPOS - 1;				

9619	1	81:1	49	MVCURSOR(PRWIN, HPOS, VPOS);			
9620	1	81:1	60	PRPICCH(PRWIN, ' ');			
9621	1	81:1	66	MVCURSOR(PRWIN, HPOS, VPOS)			
9622	1	81:0	75	END; (* BACKSPAC *)			
9623	1	81:0	90				
9624	1	81:0	90				
9625	1	82:D	1	PROCEDURE P010052(VAR MYCHAR : CHAR);			
9626	1	82:D	2				
9627	1	82:D	2	VAR			
9628	1	82:D	2	MYCHARIN : PACKED RECORD CASE INTEGER OF			
9629	1	82:D	2	1: (I: INTEGER);			
9630	1	82:D	2	2: (S: STRING[1]);			
9631	1	82:D	2	END;			
9632	1	82:D	3				
9633	1	82:0	0	BEGIN (* P010052 *)			
9634	1	82:1	0	UNITREAD(2, MYCHARIN, 1, 0);			
9635	1	82:1	9	MYCHAR := MYCHARIN.S[0]			
9636	1	82:0	13	END; (* P010052 *)			
9637	1	82:0	28				
9638	1	82:0	28				
9639	1	27:0	0	BEGIN (* SOLICIT *)			
9640	1	27:1	0	FILLCHAR(REPLYSTR, MAXSTR + 1, 0);			
9641	1	27:1	8	STRPOS := 0;			
9642	1	27:1	11	MB2 := ' ';			
9643	1	27:1	20				
9644	1	27:1	20	REPEAT			
9645	1	27:2	20	HPOS := PRWIN^.HEAD.HCURSOR;			
9646	1	27:2	28	VPOS := PRWIN^.HEAD.VCURSOR;			
9647	1	27:2	36	MVCURSOR(PRWIN, HPOS, VPOS);			
9648	1	27:2	41	IF BAPPLE THEN			
9649	1	27:3	46	PRPICCH(PRWIN, CHR(17)) (* SPECIAL "<" FILLED TRIANGLE CURSOR *)			
9650	1	27:2	48	ELSE			
9651	1	27:3	52	PRPICCH(PRWIN, CHR(95)); (* "^" CIRCUMFLEX *)			
9652	1	27:2	56	GETKEY;			
9653	1	27:2	58	MVCURSOR(PRWIN, HPOS, VPOS);			
9654	1	27:2	63	PRPICCH(PRWIN, ' ');			
9655	1	27:2	67	MVCURSOR(PRWIN, HPOS, VPOS);			
9656	1	27:2	72	IF (INCHAR = CHR(8)) AND (STRPOS > 0) THEN			
9657	1	27:3	81	BACKSPAC			
9658	1	27:2	81	ELSE			
9659	1	27:3	85	BEGIN			
9660	1	27:4	85	IF (INCHAR = CHR(CRETURN)) OR (INCHAR = CHR(ESCAPE)) THEN			
9661	1	27:5	94	BEGIN			
9662	1	27:6	94	PRPICCH(PRWIN, ' ');			
9663	1	27:6	98	IF INCHAR = CHR(ESCAPE) THEN			
9664	1	27:7	103	WHILE STRPOS > 0 DO			
9665	1	27:8	108	BACKSPAC;			
9666	1	27:6	112	REPLYSTR[0] := CHR(STRPOS);			
9667	1	27:6	116	EXIT(SOLICIT)			
9668	1	27:5	120	END			
9669	1	27:4	120	ELSE			
9670	1	27:5	122	BEGIN			
9671	1	27:6	122	IF (INCHAR > CHR(31)) AND			
9672	1	27:6	125	(INCHAR <= CHR(127)) AND			
9673	1	27:6	129	(HPOS < PRWIN^.HEAD.HSIZE - 3) AND			
9674	1	27:6	140	(STRPOS < MAXSTR) THEN			
9675	1	27:7	146	BEGIN			

9676	1	27:8	146	STRPOS := STRPOS + 1;			
9677	1	27:8	151	REPLYSTR[STRPOS] := INCHAR;			
9678	1	27:8	155	PRPICCH(PRWIN, INCHAR)			
9679	1	27:7	157	END			
9680	1	27:6	159	ELSE			
9681	1	27:7	161	BEGIN			
9682	1	27:8	161	IF (INCHAR > CHR(129)) AND			
9683	1	27:8	166	(INCHAR <= CHR(159)) AND			
9684	1	27:8	172	(HPOS < PRWIN^.HEAD.HSIZE - 3) AND			
9685	1	27:8	183	(STRPOS < MAXSTR - 1) THEN			
9686	1	27:9	191	BEGIN			
9687	1	27:0	191	STRPOS := STRPOS + 1;			
9688	1	27:0	196	REPLYSTR[STRPOS] := INCHAR;			
9689	1	27:0	200	MB2[1] := INCHAR;			
9690	1	27:0	205	P010052(INCHAR);			
9691	1	27:0	209	STRPOS := STRPOS + 1;			
9692	1	27:0	214	REPLYSTR[STRPOS] := INCHAR;			
9693	1	27:0	218	MB2[2] := INCHAR;			
9694	1	27:0	223	PRPICMB(PRWIN, MB2)			
9695	1	27:9	226	END			
9696	1	27:8	228	ELSE			
9697	1	27:9	230	BEGIN			
9698	1	27:0	230	PRINTBEL			
9699	1	27:9	230	END			
9700	1	27:7	232	END			
9701	1	27:5	232	END;			
9702	1	27:3	232	END;			
9703	1	27:3	232				
9704	1	27:1	232	UNTIL FALSE			
9705	1	27:1	232				
9706	1	27:0	232	END; (* SOLICIT *)			
9707	1	27:0	254				
9708	1	27:0	254				
9709	1	27:0	254	(* \$I WIZ4A: WIZ4.TEXT *)			
9710	1	27:0	254				
9710	1	27:0	254	(* \$I WIZ4A: WIZ5.TEXT *)			
9711	1	27:0	254				
9712	1	27:0	254	(* WIZ5.TEXT *)			
9713	1	27:0	254				
9714	1	28:D	3	FUNCTION MENU; (* MENUWIN : TWINDOWP; P01001C			
9715	1	28:D	133	MENUSTR : TLONGSTR) : INTEGER; *)			
9716	1	28:D	133				
9717	1	28:D	133	VAR			
9718	1	28:D	133	VPOSMENU : INTEGER;			
9719	1	28:D	134	INDX : INTEGER;			
9720	1	28:D	135	MXCHOICE : INTEGER;			
9721	1	28:D	136	HPOS : INTEGER;			
9722	1	28:D	137	HPOSMENU : INTEGER;			
9723	1	28:D	138	CHOICEN : INTEGER;			
9724	1	28:D	139	DEFAULTX : INTEGER;			
9725	1	28:D	140	RTNSYMBL : INTEGER;			
9726	1	28:D	141	GOTSLASH : BOOLEAN;			
9727	1	28:D	142	CHOICES : ARRAY[0..24] OF CHAR;			
9728	1	28:D	167	MBCHAR : STRING[2];			
9729	1	28:D	169	CH : CHAR;			
9730	1	28:D	170				
9731	1	28:D	170				

9732	1	83:D	1	PROCEDURE EXITMENU(MP01 : INTEGER); (* P010053 *)		
9733	1	83:D	2			
9734	1	83:0	0	BEGIN (* EXITMENU *)		
9735	1	83:1	0	MENU := MP01;		
9736	1	83:1	4	EXIT(MENU)		
9737	1	83:0	8	END; (* EXITMENU *)		
9738	1	83:0	20			
9739	1	28:0	0	BEGIN (* MENU *)		
9740	1	28:1	0	DEFAULTX := -1;		
9741	1	28:1	10	RTNSYMBL := -1;		
9742	1	28:1	15	MXCHOICE := 0;		
9743	1	28:1	19	HPOSMENU := MENUWIN^.HEAD.HCURSOR;		
9744	1	28:1	28	HPOS := -1;		
9745	1	28:1	33	GOTSLASH := TRUE;		
9746	1	28:1	37	VPOSMENU := MENUWIN^.HEAD.VCURSOR;		
9747	1	28:1	46	INDX := 1;		
9748	1	28:1	50	MBCHAR[0] := CHR(2);		
9749	1	28:1	56	WHILE INDX <= LENGTH(MENUSTR) DO		
9750	1	28:2	66	BEGIN		
9751	1	28:3	66	CH := MENUSTR[INDX];		
9752	1	28:3	75	IF CH = '/' THEN		
9753	1	28:4	82	BEGIN		
9754	1	28:5	82	IF MENUWIN^.HEAD.HCURSOR > HPOS THEN		
9755	1	28:6	94	HPOS := MENUWIN^.HEAD.HCURSOR;		
9756	1	28:5	103	PRINTCR(MENUWIN);		
9757	1	28:5	106	GOTSLASH := TRUE		
9758	1	28:4	106	END		
9759	1	28:3	110	ELSE		
9760	1	28:4	112	BEGIN		
9761	1	28:5	112	IF GOTSLASH THEN		
9762	1	28:6	117	BEGIN		
9763	1	28:7	117	IF MENUWIN^.HEAD.VCURSOR = 0 THEN		
9764	1	28:8	127	BEGIN		
9765	1	28:9	127	MENUWIN^.HEAD.VCURSOR := VPOSMENU;		
9766	1	28:9	136	HPOSMENU := HPOS + 1		
9767	1	28:8	139	END;		
9768	1	28:7	144	MVCURSOR(MENUWIN, HPOSMENU, MENUWIN^.HEAD.VCURSOR);		
9769	1	28:7	156	IF CH >= 'a' THEN		
9770	1	28:8	163	BEGIN		
9771	1	28:9	163	IF DEFAULTX < 0 THEN		
9772	1	28:0	170	BEGIN		
9773	1	28:1	170	RTNSYMBL := 1;		
9774	1	28:1	174	DEFAULTX := MXCHOICE		
9775	1	28:0	174	END;		
9776	1	28:9	180	CH := CHR(ORD(CH) - 32) (* CONVERT TO UPPER CASE *)		
9777	1	28:8	185	END;		
9778	1	28:7	188	CHOICES[MXCHOICE] := CH;		
9779	1	28:7	200	GOTSLASH := FALSE;		
9780	1	28:7	204	MXCHOICE := MXCHOICE + 1		
9781	1	28:6	207	END;		
9782	1	28:6	212			
9783	1	28:5	212	IF (CH >= CHR(129)) AND (CH <= CHR(159)) THEN		
9784	1	28:6	229	BEGIN		
9785	1	28:7	229	MBCHAR[1] := CH;		
9786	1	28:7	237	INDX := INDX + 1;		
9787	1	28:7	245	MBCHAR[2] := MENUSTR[INDX];		
9788	1	28:7	256	PRPICMB(MENUWIN, MBCHAR)		

9789	1	28:6	260	END				
9790	1	28:5	262	ELSE				
9791	1	28:6	264	BEGIN				
9792	1	28:7	264	IF RTNSYMBL = 0 THEN				
9793	1	28:8	271	PRPICCH(MENUWIN, '~')				
9794	1	28:7	273	ELSE				
9795	1	28:8	277	PRPICCH(MENUWIN, CH);				
9796	1	28:6	283	END;				
9797	1	28:6	283					
9798	1	28:5	283	IF RTNSYMBL >= 0 THEN				
9799	1	28:6	290	RTNSYMBL := RTNSYMBL - 1				
9800	1	28:4	293	END;				
9801	1	28:4	298					
9802	1	28:3	298	INDX := INDX + 1				
9803	1	28:2	301	END; (* WHILE *)				
9804	1	28:2	308					
9805	1	28:1	308	REPEAT				
9806	1	28:2	308	GETKEY;				
9807	1	28:2	310	CHOICEN := 0;				
9808	1	28:2	314	FOR INDX := 0 TO MXCHOICE - 1 DO				
9809	1	28:3	335	BEGIN				
9810	1	28:4	335	IF (INCHAR = CHR(13)) AND (DEFAULTX = INDX) THEN				
9811	1	28:5	348	BEGIN				
9812	1	28:6	348	EXITMENU(CHOICEN)				
9813	1	28:5	351	END				
9814	1	28:4	353	ELSE				
9815	1	28:5	355	BEGIN				
9816	1	28:6	355	IF (CHOICES[INDX] = INCHAR) AND				
9817	1	28:6	366	(INCHAR <> '#') THEN				
9818	1	28:7	372	BEGIN				
9819	1	28:8	372	EXITMENU(CHOICEN)				
9820	1	28:7	375	END				
9821	1	28:6	377	ELSE				
9822	1	28:7	379	BEGIN				
9823	1	28:8	379	IF CHOICES[INDX] = '#' THEN				
9824	1	28:9	392	BEGIN				
9825	1	28:0	392	IF (INCHAR > CHR(48)) AND				
9826	1	28:0	395	(INCHAR <= CHR((48 + BASE04))) THEN				
9827	1	28:1	403	EXITMENU(CHOICEN + ORD(INCHAR) - 49);				
9828	1	28:0	412	CHOICEN := CHOICEN + 6				
9829	1	28:9	415	END				
9830	1	28:8	420	ELSE				
9831	1	28:9	422	CHOICEN := CHOICEN + 1				
9832	1	28:7	425	END				
9833	1	28:5	430	END;				
9834	1	28:3	430	END;				
9835	1	28:3	440					
9836	1	28:2	440	PRINTBEL (* UNITWRITE(XXX, 0, 24, XXX) *)				
9837	1	28:1	440	UNTIL FALSE;				
9838	1	28:1	445					
9839	1	28:0	445	END; (* MENU *)				
9840	1	28:0	468					
9841	1	28:0	468					
9842	1	29:D	1	PROCEDURE P01001D; (* VAR MP02 : TLONGSTR;				
9843	1	29:D	3	MP01 : INTEGER) *)				
9844	1	29:D	3					
9845	1	29:D	3	VAR				

9846	1	29:D	3					
9847	1	29:D	3	MP03 : CHAR;				
9848	1	29:D	4	MP04 : TLONGSTR;				
9849	1	29:D	132					
9850	1	29:D	132					
9851	1	84:D	1	PROCEDURE P010054(P54MP01 : INTEGER);				
9852	1	84:D	2					
9853	1	84:0	0	BEGIN (* P010054 *)				
9854	1	84:1	0	MP01 := MP01 + P54MP01;				
9855	1	84:1	8	COPYSTR(MP02, MP02, 2, LENGTH(MP02) - 1);				
9856	1	84:1	24	MP03 := MP02[1]				
9857	1	84:0	28	END; (* P010054 *)				
9858	1	84:0	44					
9859	1	84:0	44					
9860	1	29:0	0	BEGIN (* P01001D *)				
9861	1	29:1	0	MP03 := MP02[1];				
9862	1	29:1	5	MP04 := '';				
9863	1	29:1	12	IF MP03 = '*' THEN				
9864	1	29:2	17	MP04 := MP02				
9865	1	29:1	19	ELSE				
9866	1	29:2	24	BEGIN				
9867	1	29:3	24	IF MP03 = '+' THEN				
9868	1	29:4	29	P010054(2)				
9869	1	29:3	30	ELSE IF MP03 = '-' THEN				
9870	1	29:5	39	P010054(4);				
9871	1	29:5	42					
9872	1	29:3	42	IF (MP03 = 'A') OR (MP03 = 'E') OR (MP03 = 'I') OR				
9873	1	29:3	53	(MP03 = 'O') OR (MP03 = 'U') THEN				
9874	1	29:4	63	GETMSGTX(MP04, MP01)				
9875	1	29:3	66	ELSE				
9876	1	29:4	70	GETMSGTX(MP04, MP01 + 1);				
9877	1	29:4	77					
9878	1	29:3	77	INSERTST(MP02, MP04)				
9879	1	29:2	80	END;				
9880	1	29:2	82					
9881	1	29:1	82	MP02 := MP04				
9882	1	29:1	83					
9883	1	29:0	83	END; (* P01001D *)				
9884	1	29:0	100					
9885	1	29:0	100					
9886	1	36:D	1	PROCEDURE GETMSGTX; (* VAR MSGSTR : TLONGSTR; *) (* P010024 *)				
9887	1	36:D	3	(* MSGNUM : INTEGER *)				
9888	1	36:D	3					
9889	1	36:D	3	VAR				
9890	1	36:D	3	HIGHINDX : INTEGER;				
9891	1	36:D	4	LOWINDX : INTEGER;				
9892	1	36:D	5					
9893	1	36:D	5	UNUSEDXX : INTEGER;				
9894	1	36:D	6	UNUSEDYY : INTEGER;				
9895	1	36:D	7	UNUSEDZZ : INTEGER;				
9896	1	36:D	8					
9897	1	36:D	8	CACHEBUF : TCACHEP;				
9898	1	36:D	9	MSGBUF : TCACHEP;				
9899	1	36:D	10					
9900	1	36:D	10					
9901	1	85:D	1	PROCEDURE RDHUFF(HUFFXXXX : INTEGER); (* P010055 *)				
9902	1	85:D	2					

9903	1	85:D	2	(* HUFFXXXX IS INDEX INTO ASCIIHSH *)			
9904	1	85:D	2				
9905	1	85:D	2	VAR			
9906	1	85:D	2	BOTPTR : INTEGER;			
9907	1	85:D	3	CONSECXX : INTEGER;			
9908	1	85:D	4	GROUPCNT : INTEGER;			
9909	1	85:D	5	FIRSTMSG : INTEGER;			
9910	1	85:D	6	UNUSEDXX : INTEGER;			
9911	1	85:D	7	MSGI : INTEGER;			
9912	1	85:D	8	MAGICSH : TMEOVER;			
9913	1	85:D	9	ADDXXLEN : INTEGER;			
9914	1	85:D	10	OFFSET : INTEGER;			
9915	1	85:D	11				
9916	1	85:D	11				
9917	1	86:D	1	PROCEDURE MSGERR;	(* P010056 *)		
9918	1	86:D	1				
9919	1	86:0	0	BEGIN (* MSGERR *)			
9920	1	86:1	0	MSGSTR := '**ERR**';			
9921	1	86:1	15	EXIT(GETMSGTX)			
9922	1	86:0	19	END; (* MSGERR *)			
9923	1	86:0	32				
9924	1	86:0	32				
9925	1	87:D	1	PROCEDURE RDHUFFTX;	(* P010057 *)		
9926	1	87:D	1				
9927	1	87:0	0	BEGIN (* RDHUFFTX *)			
9928	1	87:1	0	IF BASCIIHU THEN	(* ASCII.HUFF EXISTS, USE IT *)		
9929	1	87:2	5	BEGIN			
9930	1	87:2	5				
9931	1	87:2	5	(* CONVERT HUFFMAN BITS INTO ASCII STRING *)			
9932	1	87:2	5				
9933	1	87:3	5	UNITWRITE(BASE12, CACHEBUF^.DATA[OFFSET,			
9934	1	87:3	15	33, GETADDR(MSGSTR));			
9935	1	87:3	26	ADDXXLEN := 1 + LENGTH(MSGSTR);	(* STRLEN *)		
9936	1	87:2	36	END			
9937	1	87:1	36	ELSE			
9938	1	87:1	38				
9939	1	87:1	38	(* V---- NOT EXECUTED ----V *)			
9940	1	87:2	38	BEGIN			
9941	1	87:3	38	ADDXXLEN := 1 + ORD(CACHEBUF^.DATA[OFFSET]);			
9942	1	87:3	52	MOVELEFT(CACHEBUF^.DATA[OFFSET], MSGSTR, ADDXXLEN);			
9943	1	87:3	69	MAGICSH.I := 67 * (MSGNUM MOD 51);			
9944	1	87:3	79	FOR MSGI := 1 TO LENGTH(MSGSTR) DO			
9945	1	87:4	97	BEGIN			
9946	1	87:5	97	MSGSTR[MSGI] :=			
9947	1	87:5	103	CHR(((ORD(MSGSTR[MSGI]) + 16384 - MAGICSH.I) -			
9948	1	87:5	118	(23 * MSGI) MOD 256);			
9949	1	87:4	129	END;			
9950	1	87:2	139	END;			
9951	1	87:2	139	(* ^---- NOT EXECUTED ----^ *)			
9952	1	87:2	139				
9953	1	87:1	139	IF ADDXXLEN <= 20 THEN	(* STRLEN *)		
9954	1	87:2	146	BEGIN			
9955	1	87:3	146	MOVELEFT(MSGSTR, MSGBUF^.DATA[0], ADDXXLEN);			
9956	1	87:3	161	MSGBUF^.KEY := MSGNUM;			
9957	1	87:2	168	END;			
9958	1	87:2	168				
9959	1	87:1	168	EXIT(GETMSGTX)			

9960	1	87:1	172						
9961	1	87:0	172	END;	(* RDHUFFTX *)				
9962	1	87:0	186						
9963	1	87:0	186						
9964	1	85:0	0	BEGIN	(* RDHUFF *)				
9965	1	85:1	0	ADDXXLEN :=	HUFFXXXX + ASCIIKBL; (* ADDR *)				
9966	1	85:1	6	CACHEBUF :=	SEARCHBF(DSKCACHF, DSKCACHL, ADDXXLEN); (* ADDR *)				
9967	1	85:1	18	IF CACHEBUF^.KEY	<> ADDXXLEN THEN (* ADDR *)				
9968	1	85:2	26	BEGIN					
9969	1	85:3	26	UNITREAD(DRIVE1,	CACHEBUF^.DATA, 512, ADDXXLEN); (* ADDR *)				
9970	1	85:3	40	CACHEBUF^.KEY :=	ADDXXLEN (* ADDR *)				
9971	1	85:2	43	END;					
9972	1	85:1	45	FIRSTMSG :=	ASCIIHSH.PARR[HUFFXXXX];				
9973	1	85:1	53	OFFSET := 0;					
9974	1	85:1	56	IF HUFFXXXX = 0	THEN (* ACCOUNT FOR 2 PTRS AT BEGIN OF HUFF *)				
9975	1	85:2	61	OFFSET := 4;	(* BLOCK #0 *)				
9976	1	85:1	64	IF BKRNSRCH	THEN				
9977	1	85:2	69	BEGIN					
9978	1	85:2	69						
9979	1	85:2	69		(* CALCULATE ADDRESS TO MSG IN HUFF BUFFER *)				
9980	1	85:3	69	UNITWRITE(BASE12,	CACHEBUF^.KEY, 27, OFFSET, MSGNUM -				
9981	1	85:3	80					FIRSTMSG);	
9982	1	85:3	84	OFFSET :=	CACHEBUF^.KEY; (* ADDR *)				
9983	1	85:3	90	CACHEBUF^.KEY :=	ADDXXLEN; (* ADDR *)				
9984	1	85:3	95	IF OFFSET >= 0	THEN (* ADDR *)				
9985	1	85:4	100	RDHUFFTX	(* GET MSG TEXT *)				
9986	1	85:3	100	ELSE					
9987	1	85:4	104	MSGERR					
9988	1	85:2	104	END;					
9989	1	85:2	106						
9990	1	85:2	106		(* CODE BELOW HERE IS NEVER EXECUTED (?) *)				
9991	1	85:2	106						
9992	1	85:1	106	GROUPCNT :=	ORD(CACHEBUF^.DATA[511]);				
9993	1	85:1	117	BOTPTR := 510;					
9994	1	85:1	122	WHILE GROUPCNT	> 0 DO				
9995	1	85:2	127	BEGIN					
9996	1	85:3	127	IF FIRSTMSG	> MSGNUM THEN				
9997	1	85:4	134	MSGERR;					
9998	1	85:3	136	CONSECXX :=	ORD(CACHEBUF^.DATA[BOTPTR]);				
9999	1	85:3	145	BOTPTR :=	BOTPTR - 1;				
10000	1	85:3	150						
10001	1	85:3	150	IF MSGNUM	>= FIRSTMSG + CONSECXX THEN				
10002	1	85:4	159	BEGIN					
10003	1	85:5	159	FOR ADDXXLEN :=	1 TO CONSECXX DO (* ADDR *)				
10004	1	85:6	170	BEGIN					
10005	1	85:7	170	OFFSET :=	OFFSET + ORD(CACHEBUF^.DATA[BOTPTR]);				
10006	1	85:7	181	BOTPTR :=	BOTPTR - 1				
10007	1	85:6	182	END;					
10008	1	85:5	193	FIRSTMSG :=	FIRSTMSG + CONSECXX - 1				
10009	1	85:4	196	END					
10010	1	85:3	200	ELSE					
10011	1	85:4	202	BEGIN					
10012	1	85:5	202	FOR ADDXXLEN :=	FIRSTMSG + 1 TO MSGNUM DO (* ADDR *)				
10013	1	85:6	217	BEGIN					
10014	1	85:7	217	OFFSET :=	OFFSET + ORD(CACHEBUF^.DATA[BOTPTR]);				
10015	1	85:7	228	BOTPTR :=	BOTPTR - 1				
10016	1	85:6	229	END;					

10017	1	85:5	240	RDHUFFTX;				
10018	1	85:4	242	END;				
10019	1	85:3	242	ADDXXLEN := ORD(CACHEBUF^.DATA[BOTPTR]);	(* ADDR *)			
10020	1	85:3	251	IF ADDXXLEN < 128 THEN	(* ADDR *)			
10021	1	85:4	258	BEGIN				
10022	1	85:5	258	FIRSTMSG := FIRSTMSG + ADDXXLEN;	(* ADDR *)			
10023	1	85:5	263	BOTPTR := BOTPTR - 1				
10024	1	85:4	264	END				
10025	1	85:3	268	ELSE				
10026	1	85:4	270	BEGIN				
10027	1	85:5	270	FIRSTMSG := FIRSTMSG + (256 * (ADDXXLEN - 128)) +	(* ADDR *)			
10028	1	85:5	281	ORD(CACHEBUF^.DATA[BOTPTR - 1]);				
10029	1	85:5	293	BOTPTR := BOTPTR - 2				
10030	1	85:4	294	END;				
10031	1	85:3	298	GROUPCNT := GROUPCNT - 1				
10032	1	85:2	299	END; (* WHILE *)				
10033	1	85:2	305					
10034	1	85:1	305	MSGERR				
10035	1	85:1	305					
10036	1	85:0	305	END; (* RDHUFF *)				
10037	1	85:0	328					
10038	1	85:0	328					
10039	1	36:0	0	BEGIN (* GETMSGTX *)				
10040	1	36:1	0	IF MSGNUM = -1 THEN				
10041	1	36:2	6	BEGIN				
10042	1	36:3	6	MSGSTR := BASE47;				
10043	1	36:3	11	EXIT(GETMSGTX)				
10044	1	36:2	15	END;				
10045	1	36:1	15	MSGBUF := SEARCHBF(MSGCACHEF, MSGCACHL, MSGNUM);				
10046	1	36:1	26	IF MSGBUF^.KEY = MSGNUM THEN				
10047	1	36:2	32	BEGIN				
10048	1	36:3	32	MOVELEFT(MSGBUF^.DATA, MSGSTR, 1 + LENGTH(MSGBUF^.DATA));				
10049	1	36:3	47	EXIT(GETMSGTX)				
10050	1	36:2	51	END;				
10051	1	36:2	51					
10052	1	36:1	51	IF MSGNUM >= ASCIIHSH.PARR^[HUFFBLK] THEN				
10053	1	36:2	62	IF MSGNUM < ASCIIHSH.PARR^[HUFFBLK + 1] THEN				
10054	1	36:3	75	RDHUFF(HUFFBLK);				
10055	1	36:3	79					
10056	1	36:3	79	(* BINARY SEARCH ASCIIHSH TO FIND THE BLOCK WITH THE				
10057	1	36:3	79	MESSAGE WE WANT. THE BLOCK IS IN HUFF FORMAT.				
10058	1	36:3	79					
10059	1	36:3	79	PASS THE BLOCK ADDRESS TO RDHUFF() *)				
10060	1	36:3	79					
10061	1	36:1	79	LOWINDX := 0;				
10062	1	36:1	82	HIGHINDX := HFBLKCNT;				
10063	1	36:1	86	WHILE HIGHINDX >= LOWINDX DO				
10064	1	36:2	91	BEGIN				
10065	1	36:3	91	HUFFBLK := (LOWINDX + HIGHINDX) DIV 2;				
10066	1	36:3	98	IF MSGNUM < ASCIIHSH.PARR^[HUFFBLK] THEN				
10067	1	36:4	109	HIGHINDX := HUFFBLK - 1				
10068	1	36:3	111	ELSE				
10069	1	36:4	117	IF MSGNUM >= ASCIIHSH.PARR^[HUFFBLK + 1] THEN				
10070	1	36:5	130	LOWINDX := HUFFBLK + 1				
10071	1	36:4	132	ELSE				
10072	1	36:5	138	RDHUFF(HUFFBLK)				
10073	1	36:2	140	END;				

10074	1	36:2	144						
10075	1	36:0	144	END;	(* GETMSGTX *)				
10076	1	36:0	158						
10077	1	36:0	158						
10078	1	37:D	1	PROCEDURE DISP1MSG;	(* MSGWIN : TWINDOWP; P010025				
10079	1	37:D	3		MSGNUM : INTEGER *)				
10080	1	37:D	3						
10081	1	37:D	3	VAR					
10082	1	37:D	3	MESSAGE :	TLONGSTR;				
10083	1	37:D	131						
10084	1	37:0	0	BEGIN					
10085	1	37:1	0	GETMSGTX(	MESSAGE, MSGNUM);				
10086	1	37:1	5	PRPICMB(	MSGWIN, MESSAGE)				
10087	1	37:0	8	END;					
10088	1	37:0	22						
10089	1	37:0	22						
10090	1	38:D	1	PROCEDURE DISP1LIN;	(* MSGWIN: TWINDOWP; MSGNUM: INTEGER *) (* P010026 *)				
10091	1	38:D	3						
10092	1	38:D	3	VAR					
10093	1	38:D	3	MESSAGE :	TLONGSTR;				
10094	1	38:D	131						
10095	1	38:0	0	BEGIN					
10096	1	38:1	0	GETMSGTX(	MESSAGE, MSGNUM);				
10097	1	38:1	5	CENTSTR(	MSGWIN, MESSAGE)				
10098	1	38:0	8	END;					
10099	1	38:0	22						
10100	1	38:0	22						
10101	1	40:D	3	FUNCTION MBSTRLEN;	(* (MP01 : TLONGSTR) : INTEGER; P010028 *)				
10102	1	40:D	132						
10103	1	40:D	132	VAR					
10104	1	40:D	132	MP84 :	INTEGER;				
10105	1	40:D	133	MP85 :	INTEGER;				
10106	1	40:D	134	MP86 :	INTEGER;				
10107	1	40:D	135						
10108	1	40:0	0	BEGIN					
10109	1	40:1	0	MP84 :=	0;				
10110	1	40:1	9	MP85 :=	LENGTH(MP01);				
10111	1	40:1	16	MP86 :=	1;				
10112	1	40:1	20	WHILE	MP86 <= MP85 DO				
10113	1	40:2	29	BEGIN					
10114	1	40:2	29						
10115	1	40:2	29		(* CHECK FOR FIRST BYTE OF MULTI-BYTE CHARACTER *)				
10116	1	40:2	29						
10117	1	40:3	29	IF (ORD(	MP01[MP86]) >= 129) AND (ORD(MP01[MP86]) <= 159) THEN				
10118	1	40:4	52	MP86 :=	MP86 + 1;				
10119	1	40:3	60	MP84 :=	MP84 + 1;				
10120	1	40:3	68	MP86 :=	MP86 + 1				
10121	1	40:2	71	END;					
10122	1	40:1	78	MBSTRLEN :=	MP84				
10123	1	40:0	78	END;					
10124	1	40:0	98						
10125	1	40:0	98						
10126	1	39:D	3	FUNCTION MENUINDX;	(* MP04 : TWINDOWP P010027				
10127	1	39:D	5		MP03 : INTEGER) INTEGER; *)				
10128	1	39:D	5						
10129	1	39:D	5	VAR					
10130	1	39:D	5	MP05 :	TLONGSTR;				

10131	1	39:D	133					
10132	1	39:0	0	BEGIN	(* MENUINDX *)			
10133	1	39:1	0	GETMSGTX(	MP05, MP03);			
10134	1	39:1	5	MENUINDX :=	MENU(MP04, MP05)			
10135	1	39:0	8	END;	(* MENUINDX *)			
10136	1	39:0	26					
10137	1	39:0	26					
10138	1	41:D	3	FUNCTION	GTTITWIN; (* (MSGINDX : INTEGER; P010029			
10139	1	41:D	7		VPOS : INTEGER;			
10140	1	41:D	7		VSIZE : INTEGER;			
10141	1	41:D	7		PRIORITY : INTEGER) : TWINDOWP; *)			
10142	1	41:D	7					
10143	1	41:D	7	VAR				
10144	1	41:D	7	MSG	: TLONGSTR;			
10145	1	41:D	135	MSGW	: INTEGER;			
10146	1	41:D	136	TITWIN	: TWINDOWP;			
10147	1	41:D	137					
10148	1	41:0	0	BEGIN	(* GTTITWIN *)			
10149	1	41:1	0	GETMSGTX(	MSG, MSGINDX);			
10150	1	41:1	5	MSGW :=	(1 + MBSTRLEN(MSG)) DIV 2;			
10151	1	41:1	18	TITWIN :=	GETWIN(19 - MSGW, VPOS,			
10152	1	41:1	24		MSGW + MSGW + 2, VSIZE + 2,			
10153	1	41:1	36		PRIORITY, TRUE);			
10154	1	41:1	45	PRPICMB(	TITWIN, MSG);			
10155	1	41:1	52	GTTITWIN	:= TITWIN			
10156	1	41:0	52	END;	(* GTTITWIN *)			
10157	1	41:0	70					
10158	1	41:0	70					
10159	1	42:D	1	PROCEDURE	POOLGOLD; (* (CHARI : INTEGER); P01002A *)			
10160	1	42:D	2					
10161	1	42:D	2	VAR				
10162	1	42:D	2	CHARX	: INTEGER;			
10163	1	42:D	3	ZEROGOLD	: TWIZLONG;			
10164	1	42:D	6	TOTLGOLD	: TWIZLONG;			
10165	1	42:D	9					
10166	1	42:0	0	BEGIN	(* POOLGOLD *)			
10167	1	42:1	0	ZEROGOLD.LOW	:= 0;			
10168	1	42:1	3	ZEROGOLD.MID	:= 0;			
10169	1	42:1	6	ZEROGOLD.HIGH	:= 0;			
10170	1	42:1	9	TOTLGOLD :=	ZEROGOLD;			
10171	1	42:1	15	FOR CHARX	:= 0 TO BASE04 - 1 DO			
10172	1	42:2	28	BEGIN				
10173	1	42:3	28	ADDLONGS(	TOTLGOLD, CHARACTER[CHARX].GOLD);			
10174	1	42:3	40	CHARACTER[	CHARX].GOLD := ZEROGOLD			
10175	1	42:2	48	END;				
10176	1	42:1	59	CHARACTER[	CHARI].GOLD := TOTLGOLD			
10177	1	42:0	67	END;	(* POOLGOLD *)			
10178	1	42:0	86					
10179	1	42:0	86					
10180	1	57:D	1	PROCEDURE	P010039; (* MP06 : TLONGSTR;			
10181	1	57:D	135		MP05 : INTEGER;			
10182	1	57:D	135		MP04 : INTEGER;			
10183	1	57:D	135		MP03 : INTEGER;			
10184	1	57:D	135		MP02 : INTEGER;			
10185	1	57:D	135		MP01 : INTEGER *)			
10186	1	57:D	135					
10187	1	57:D	135	VAR				

10188	1	57:D	135	MP87 : TWINDOWP;				
10189	1	57:D	136	MP88 : CHAR;				
10190	1	57:D	137					
10191	1	57:D	137					
10192	1	88:D	1	PROCEDURE P010058(MP01 : INTEGER);				
10193	1	88:D	2					
10194	1	88:0	0	BEGIN (* P010058 *)				
10195	1	88:1	0	MP87^.HEAD.VCURSOR := 15;				
10196	1	88:1	10	PRINTNUM(MP87, MP01, 6);				
10197	1	88:1	18	PRINTCR(MP87)				
10198	1	88:0	22	END; (* P010058 *)				
10199	1	88:0	36					
10200	1	88:0	36					
10201	1	57:0	0	BEGIN (* P010039 *)				
10202	1	57:1	0	MP88 := INCHAR;				
10203	1	57:1	9	MP87 := GETWIN(0, 10 - (MP05 DIV 2), 40, (4 + MP05), 30, TRUE);				
10204	1	57:1	28	CENTSTR(MP87, MP06);				
10205	1	57:1	35	IF MP05 >= 1 THEN				
10206	1	57:2	40	P010058(MP04);				
10207	1	57:1	43	IF MP05 >= 2 THEN				
10208	1	57:2	48	P010058(MP03);				
10209	1	57:1	51	IF MP05 >= 3 THEN				
10210	1	57:2	56	P010058(MP02);				
10211	1	57:1	59	IF MP05 >= 4 THEN				
10212	1	57:2	64	P010058(MP01);				
10213	1	57:1	67	CENTSTR(MP87, 'PRESS RETURN');				
10214	1	57:1	87	GETCR;				
10215	1	57:1	89	DELWIN(MP87, TRUE);				
10216	1	57:1	95	INCHAR := MP88				
10217	1	57:0	95	END; (* P010039 *)				
10218	1	57:0	112					
10219	1	57:0	112					
10220	1	58:D	1	PROCEDURE P01003A; (* (MP01 : TLONGSTR) *)				
10221	1	58:D	130					
10222	1	58:D	130	VAR				
10223	1	58:D	130	MP82 : TWINDOWP;				
10224	1	58:D	131					
10225	1	58:0	0	BEGIN (* P01003A *)				
10226	1	58:1	0	MP82 := GETWIN(0, 0, 40, 3, 30, TRUE);				
10227	1	58:1	18	CENTSTR(MP82, MP01);				
10228	1	58:1	25	PAUSE2;				
10229	1	58:1	27	DELWIN(MP82, FALSE)				
10230	1	58:0	31	END; (* P01003A *)				
10231	1	58:0	46					
10232	1	58:0	46					
10233	1	59:D	3	FUNCTION FINDFILE; (* (DRIVE : INTEGER; P01003B *)				
10234	1	59:D	46	(* FILENM : STRING) : INTEGER; *)				
10235	1	59:D	46					
10236	1	59:D	46	VAR				
10237	1	59:D	46	DIR: ARRAY[0..76] OF DIRENTRY; (* ONLY 76 FILE ENTRIES (?) *)				
10238	1	59:D	1047	FILEI : INTEGER;				
10239	1	59:D	1048	FILEX : INTEGER;				
10240	1	59:D	1049					
10241	1	59:0	0	BEGIN				
10242	1	59:1	0	FILLCHAR(DIR, SIZEOF(DIR), 0);				
10243	1	59:1	14	UNITREAD(DRIVE, DIR, SIZEOF(DIR), 2);				
10244	1	59:1	25					(* 2 = VOLUME HEADER +

10245	1	59:1	25		UP TO 77 FILE ENTRIES *)
10246	1	59:1	25	IF IORESULT <> 0 THEN	
10247	1	59:2	31	FINDFILE := -ABS(IORESULT) (* THIS IS A BUG *)	
10248	1	59:1	34	ELSE	
10249	1	59:2	39	BEGIN	
10250	1	59:3	39	FILEI := 0;	
10251	1	59:3	43	FOR FILEX := 1 TO DIR[0].FILECNT DO	
10252	1	59:4	66	BEGIN	
10253	1	59:5	66	WITH DIR[FILEX] DO	
10254	1	59:6	76	BEGIN	
10255	1	59:7	76	IF (FILEKIND.FT >= BADBLK) AND	
10256	1	59:7	86	(FILEKIND.FT <= FOTOFIL) THEN	
10257	1	59:8	99	IF FILENAME = FILENM THEN	
10258	1	59:9	110	FILEI := FILEX;	
10259	1	59:6	116	END;	
10260	1	59:4	116	END;	
10261	1	59:3	126	IF FILEI = 0 THEN	
10262	1	59:4	133	FINDFILE := -9	
10263	1	59:3	133	ELSE	
10264	1	59:4	139	FINDFILE := DIR[FILEI].FIRSTBLK	
10265	1	59:2	146	END	
10266	1	59:0	149	END;	
10267	1	59:0	164		
10268	1	59:0	164		
10269	1	59:0	164	(*I WIZ4A: WIZ5.TEXT *)	
10270	1	59:0	164		
10271	1	1:0	0	BEGIN (* WIZARDRY MAIN LINE *)	
10272	1	1:0	0		
10273	1	1:1	0	BASE12 := 13;	
10274	1	1:1	5	BAPPLE := FINDFILE(DRIVE1, 'IS.APPLE') > 0;	
10275	1	1:1	26	BLINES24 := FINDFILE(DRIVE1, 'LINES.24') > 0;	
10276	1	1:1	47	BCACHE := FINDFILE(DRIVE1, 'HAS.CACHE') > 0;	
10277	1	1:1	69	BSTROPS := FINDFILE(DRIVE1, 'HAS.STROPS') > 0;	
10278	1	1:1	92	BRELOC := FINDFILE(DRIVE1, 'SYSTEM.RELOC') > 0;	
10279	1	1:1	117	BKRNSRCH := FINDFILE(DRIVE1, 'HAS.KRNSRCH') > 0;	
10280	1	1:1	141		
10281	1	1:1	141	MAZEBLCK := FINDFILE(DRIVE1, 'MAZE.INFO');	
10282	1	1:1	161	IF BRELOC THEN	
10283	1	1:2	166	BEGIN	
10284	1	1:3	166	BASE09 := 0;	
10285	1	1:3	169	UNITWRITE(BASE12, BASE09, 31, FINDFILE(4, 'SYSTEM.RELOC'));	
10286	1	1:3	198		
10287	1	1:3	198	BASE09 := 1;	
10288	1	1:3	201	UNITWRITE(BASE12, BASE09, 31, BASE09)	
10289	1	1:3	211	(* DISK TABLE INIT: \$5D..\$65 *)	
10290	1	1:3	211	(* \$F2: #80 *)	
10291	1	1:3	211	(* \$2F: #80 *)	
10292	1	1:2	211	END;	
10293	1	1:2	211		
10294	1	1:1	211	BASE09 := 0;	
10295	1	1:1	214		
10296	1	1:1	214	REPEAT (* SEEMS LIKE THIS ONE IS A "DEAD" REPEAT LOOP *)	
10297	1	1:1	214		
10298	1	1:2	214	REPEAT	
10299	1	1:3	214	KANJIREA(NIL, BASE47, BASE09); (* P010601 *)	
10300	1	1:3	221	IF BASE09 = 1 THEN	
10301	1	1:4	226	DOCOPY (* DOCOPY *)	

10302	1	1:3	226	ELSE IF BASE09 = 2 THEN			
10303	1	1:5	236	DOCACHE	(* DOCACHE *)		
10304	1	1:5	236				
10305	1	1:5	236		(* DOCACHE SETS: *)		
10306	1	1:5	236		(* BASE09 = 0 *)		
10307	1	1:5	236		(* BASE13 = 1 *)		
10308	1	1:2	236	UNTIL BASE09 = 0;			
10309	1	1:2	244				
10310	1	1:2	244	REPEAT			
10311	1	1:3	244	CASE BASE13 OF			
10312	1	1:3	248		22: CASE BASE26 OF		
10313	1	1:4	252		0, 1, 2: CAMP;		
10314	1	1:4	257		4: UTILITIE;		
10315	1	1:4	262		3: P010901;		
10316	1	1:4	267		END;		
10317	1	1:3	286		15, 21, 24: P010901;		
10318	1	1:3	291		1, 3, 4, 8, 14, 23: SHOPS; (* P010801; *)		
10319	1	1:3	296		7, 11, 12, 13, 18: UTILITIE;		
10320	1	1:3	301		5: RUNNER;		
10321	1	1:3	306		6, 19: P010101;		
10322	1	1:3	311		2, 9, 10, 16, 20, 25: CAMP;		
10323	1	1:3	316	END			
10324	1	1:3	374				
10325	1	1:2	374	UNTIL BASE13 = 0;			
10326	1	1:2	380				
10327	1	1:2	380	EXIT(WIZARDRY);			
10328	1	1:2	384				
10329	1	1:2	384	BASE09 := 5			
10330	1	1:2	384				
10331	1	1:1	384	UNTIL FALSE			
10332	1	1:0	387	END.			