	Page Status	Error	Correction	Name	Note from Fab
	OBSOLETE, Report issues on https://				
Paper	114 Duplicate of erratum #37	Page starts with "duce the many monsters necessary." Missing previous line.	ng previous lin	Lewis Christie	
PlayStore Paper	4 Fixed in v1.1 5 Fixed in v1.1	Missing space between "the" and "DOOM" helping me assembling a'	"maps into the DOOM engine." helping me assemble a' OR ' helping me with assembling a'	Daniel Monteiro Rory O'Kenny	
Paper	6 Fixed in v1.1		Samuel Villarreal	John Corrado	
Paper 300dpi	19 Fixed in v1.1 20 Fixed in v1.1	Footnote 2: These is even a website Samuel Kaiser	There is even a website "shortly"	Olivier Cahagne Steve Hoelzer	
Paper	35 Fixed in v1.1	"Figure ??"	Need to point to the correct figure	Steve Hoelzer	
Paper	36 Fixed in v1.1	Footnote 17 appears to be missing. 17 is used for the word "Comparison" in Figure 2.7 but is not found in the footnotes.	Figure 17 should appear in the footnotes or probably removed from the Figure 2.7 description.	Ryan Cook	
Paper	36 Fixed in v1.1 38 Fixed in v1.1	Footnote #17 doesn't exist	The VLB (VESA Local Bus)		
PlayStore PlayStore	39 Fixed in v1.1	"The VLB (VEAS Local Bus)" - should be "VESA Local Bus" Figure 2.15: Adress line connected to bit line and !bit line.	(lower left and right dots erroneous)	Bartosz Pikacz	ebbdoom/
Paper	43 Fixed in v1.1	With 2 ³² / 4 = 1,073,741,824 addresses competing for four slots ()	With 2^32 / 128 = 33,554,432 addresses sharing the same LINE value and competing for four slots ()	Aurélien COUDERC	
Paper	48 Fixed in v1.1	"compared to the the ALU" between Figure 2.22 and 2.23	cut one "the"	Frank Polster	
Paper Paper	55 Fixed in v1.1 56 Fixed in v1.1	the most notorious chip of the era' "The VLB (VEAS Local Bus)" - should be "VESA Local Bus"	the most notorious ships of the era'	Rory O'Kenny	
		"The opposite page shows three VGA cards available in 1994" Opposite doesn't really make sense when reading a			
Paper	58 Fixed in v1.1	PDF.	"The following page shows three VGA cards available in 1994" The ATAPI connector is the IDE connector. ATAPI is the name of the	Aiden Hoopes	
			protocol used to drive a CDROM over the IDE connector. The second connector is to get sound from the CDROM player. I think it was just		
PlayStore	60 Fixed in v1.1	ATAPI connector	called a CD audio connector.	Vincent Bernat	
Paper	61 Fixed in v1.1	"46.61512 Mhz Timer"	"46.61512 MHz oscillator" There are also 2 crystal resonators on the board	Boris Chuprin	
Paper	61 fixed in v1.1	"Expansion Interface for wavetable-capable WaveBlaster daughtercard"	"WaveBlaster Connector for MIDI "wavetable synthesizer" daughterboard"	Boris Chuprin	
			"line-in, mic-in, volume wheel, line/speaker-out and MIDI/joystick port." https://stason.org/TULARC/pc/sound-cards-multimedia/CREATIVE-		
Paper	61 Fixed in v1.1	"mic-in, line-in, volume wheel, line-out,and joystick port."	LABS-INC-Sound-card-SOUNDBLASTER-16-ASP-C.html Nope, it *tried to* emulate SB2.0(not even Pro/Pro2) via software TSR	Boris Chuprin	
			utility that had serious compatibility issues. OPL2 music was out of the question, way too bad. See the last lines here: https://www.vogonswiki.		
		"offered Sound Blaster 16-compatible music and digitized	com/index.php/Gravis_Ultrasound Without specific GUS support you would just get no sound from some games. No GUS cards emulate		
Paper PlayStore	61 Fixed in v1.1x 61 Fixed in v1.1	sound playback" Second, the card had to able to access the sampe at runtime	SB16	Boris Chuprin	
Paper	62 Fixed in v1.1	"line-out, and joystick port."	"line-out and MIDI/joystick port."	Boris Chuprin	
			Internet was not needed to play Doom through a modern. You can dial a friend directly. Also, no AOL subscription is needed to connect to a BBS		
PlayStore	66 Fixed in v1.1	not only had to pay for a modem and the monthly subscription to an Internet provider	 either. I am not even sure it was possible to play Doom over Internet when it was released. 	Vincent Bernat	
PlayStore	72 Fixed in v1.1	"In 1988, three Ph.Ds (Fred Crigger, Ian McPhee, and Jack Schueler) made it the first C compiler to run on an IBM PC"	I may have misunderstood: on the wikipedia page: Borland Turbo C 1.0 was released in 1987.	Olivier Neveu	
Paper	77 Fixed in v1.1	There is third aspect of protected-mode programming	There is a third aspect of protected-mode programming	Sam Williamson	
300dpi Paper	78 Fixed in v1.1 93 Fixed in v1.1	catching id SoftwareåÄŻs attention Figure 3.10 shows 9 SIMM RAM slots	catching id Software's attention Should show 8 slots like on the actual photo on the previous page	Bartosz Taudul Boris Chuprin	
		•	"4 MiB VRAM" This is framebuffer RAM. Probably dual-ported. It is soldered to the board, is the only memory RAMDAC can read and can't		
Paper	93 Fixed in v1.1	"4 MiB default RAM"	be extended.	Boris Chuprin	
Paper 300dpi	102 Fixed in v1.1 107 Fixed in v1.1	still a far cry from the 2,800 millions Sun "Musics composer"	still a far cry from the \$2.8 billion Sun Should be "Music composer"	Richard Adem @richy486 Steve Hoelzer	
		A few models managed to escape into the wild and are now	A few models managed to escape into the wild and are now highly- prized by collectors. Or: A few models managed to escape into the wild		
PlayStore	110 Fixed in v1.1	highly priced by collectors.	and are now highly priced collectibles. "Using clay models was faster than drawing by hand but it was still not		
PlayStore	111 Fixed in v1.1	Fixed in v1.1	faster enough to pro-"	Alexander Verder Laborati	
Paper	113	At the bottom of the page, the text that's supposed to be under the picture (the description) is inside the picture. See: https://i.imgur.com/picE03E.jpg I's black on black so it	-	Alexandre-Xavier Labonté- Lamoureux (axdoomer)	
	Fixed in v1.1	cannot be read.		Alexandre-Xavier I abonté-	
Paper	113 Fixed in v1.1	 A. Carmack sculpting the Hell Knight, working from his preliminary drawing. 	A. Carmack sculpting the Baron of Hell, working from his preliminary drawing. (It was during the development of Doom 1, the Hell Knight was only added in Doom 2)	Lamoureux (axdoomer)	
	T IXEG III VI. I		The image should be a little smaller to leave room for the text, which is		
Paper	113 Fixed in v1.1	The second image is over the last text line, that cannot be read	"Using clay models was faster than drawing by hand but it was still not faster enough to pro-"	Davide Gualano @davesio	
Paper Paper	120 Fixed in v1.1	"[] and a red tainted sunset" DOOM II, Episode I	"[] and a red tinted sunset" (should be "tinted" not "tainted") DOOM, Episode I. (or just DOOM2?)	Matt Riggott Guilherme Manika	
Paper	123 Fixed in v1.1	DOOM II, Episode I	DOOM, Episode I. (or just DOOM2?)	Guilherme Manika	
300dpi Paper	126 Fixed in v1.1 127	"both floors and walls were horizontal" Trivia: DoomED's icon is an imp.	"both floors and ceilings were horizontal" Trivia: DoomED's icon vaguely resembles a Baron of Hell.	Brian Gilbert @troldann Alexandre-Xavier Labonté-	
	Fixed in v1.1		The full twenty seven maps of the registered version required 11	Lamoureux (axdoomer) Jamis Eichenauer	
Paper	Fixed in v1.1	The full twenty seven maps of the registered version requested 11 minutes.	minutes.	Jamis Eichenauer	
Paper	140 Fixed in v1.1	IB was nicely complemented by the OOP (Oriented Object Programming)	IB was nicely complemented by the OOP (Object Oriented Programming)	Vasil Yonkov vasily@mm.st	
Paper	141 Fixed in v1.1	Footnote 15: Mikea Ash	Mike Ash	Anders Montonen	
Paper Paper	143 Fixed in v1.1 145 Fixed in v1.1	in an envelop on the back cover Wad 'head' struct lists a member 'int32_t numDirectories //	in an envelope on the back cover I think this should be 'int32_t numLumps // Num lumps' based on the	phg Chris @JayceAndTheNews	
PlayStore	148 Fixed in v1.1	[Footnote 4] "Large portions of previously censured portions of" should be "censored" not "censured"	Large portions of previously censored portions of		
PlayStore	150 Fixed in v1.1	The stream 0x12, 0x34, 0x45, 0x78 can be	The stream 0x12, 0x34, 0x56, 0x78 can be		
Paper	152 Fixed in v1.1	The stream 0x12, 0x34, 0x45, 0x78 can be First line. nm is the one showing undefined symbols, not	The stream 0x12, 0x34, 0x56, 0x78 can be		
Paper PlayStore	154 Fixed in v1.1 156 Fixed in v1.1	clang Third paragraph: "there is zero overheard"	Should be "Asking nm for undefined symbols" There is zero overhead	Boris Faure @billiob Marcus Dicander	
Paper	160 Fixed in v1.1	a code convention is used to to tag functions.	a code convention is used to tag functions.	Patrick Hresko	
PlayStore	160 Fixed in v1.1 162 Fixed in v1.1	D_Display (); //Generate visio	D_Display (); //Generate video	Dichard Adam @ri-h400	
Paper		Generate visio there are display bugs with extremely large maps caused by	Generate video there are display bugs with extremely large maps caused by this specific	Richard Adem @richy486	
300dpi Paper	167 Fixed in v1.1 167 Fixed in v1.1	to this specific problem caused by to this specific problem	problem caused by this specific problem	phg	
300dpi	172 Fixed in v1.1	Hexen Shareware, HEXENDEMO.WAD	Hexen is not shareware, there was a 4 level demo available. The filename was HEXEN.WAD.	Bartosz Taudul	
	173 Fixed in v1.1	"in case the name was a fill 8 chars" code comment in the middle		Frank Polster	
Paper Paper	174 Fixed in v1.1	ID is used to looked up a lumpcache	"[] full 8 chars" ID is used to look up a lumpcache	I I di IK FUISTET	
Paper	177 Fixed in v1.1	Figure 5.23 / Video System (DOS): "I_UpdateNoBIt"	"I_UpdateNoBlit"	phg	
		Code: if (gamestate != oldgamestate && gamestate !=	In the downloaded source, this if block controls the running of I_SetPalette. The code in the book suggests R_RenderPlayerView is not run if the gamestate is GS_LEVEL, which is incorrect. Statement should	t	
Paper	180 Fixed in v1.1	GS_LEVEL in wrong place	be if (gamestate == GS_LEVEL && !automapactive && gametic)	Dani Drianell	
Paper	192 Fixed in v1.1	recursively flowed into the adjourning sectors, The area between B2, C2, F, and F is concave. We need one		Rory Driscoll	
PlayStore Paper	196 Fixed in v1.1 198 Fixed in v1.1	last split where F is selected as splitter. The area between B2, C2, F, and F is concave.	where F is selected as splitter. The area between B2, C2, E, and F is concave.	tronster	
· upo	100 1100 11 11.1	The died between DZ, OZ, 1, and 1 is concave.	1.1.1 Journal, 52, 52, 2, and 1 to concave.		

	Page	Status	Error Yes traversing any tree is O(N) but it is not case here. in R. RenderBSPNode you can see that John carmack has added R. CheckBBO and the control will traverse some of the tree if it in player FOV. Actually if you comment R. CheckBBox out, rendering w complete with ususes. In awe done some analysis on E1Md and with player being on spawn point. With R. CheckBBox enabled. R. RenderBSPNode will be called 81 times (hitting 32 leaves). While if you remove R. CheckBBox, R. RenderBSPNode will traverse though ever node in the tree which will be called 477 times (hitting 31 and		Note from Fab
			leaves), R_ObeckBlox will skip traversing more than 50% of the tree in most cases. Note from FAB: I think it is fair to say the game engine was designed with worse case scenario in mind. Take the development of Quake (which is well documented in michael abrash black book) where they only* this doesn't really apply here since traversing the BS* discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios and to be discarded sorterinques because worse case scenarios.		
			is O(n), not O(log n). It only looks like "log n" in the example, Yes there are cases where the BB will reject early entire portions of the since the tree is degenerate. Bounding box culling should BSP but this is an optimization, not the requiar usecase. On this basis,		
Paper Paper		99 Fixed in v1.1 02 Fixed in v1.1	help get it closer to log n, but that isn't described. maintain in the book that O(N) is one of the attractive side of BSP. the plan equation the plane equation	Tzvetan Mikov tronster	
Paper		3 Fixed in v1.1	// Shortcut if node if horizontal. Should be: // Shortcut if node is horizontal	Miltiadis Koutsokeras	
Paper Paper		03 Fixed in v1.1 04 Fixed in v1.1	fixed_t dx, dx, fixed_t dx, dy, fixed_t dx, dy, to the full range of a 32-bit integers.' to the full range of a 32-bit integer.'	Rory O'Kenny	
Paper	22	24 fixed in v1.1	"with 0 being the brightness" at the bottom of the page "with 0 being the brightest" Each portion of sky is stored as a visplane and drawn as Each portion of the sky is stored as a visplane and drawn as a column.	Frank Polster	
Paper Paper		28 Fixed in v1.1 34 Fixed in v1.1	span of pixels. span of pixels. to think of as a log' to think of as a log'	John Corrado Rory O'Kenny	
Paper		35 Fixed in v1.1	A vissprite entry contains eveything A vissprite entry contains eveything A vissprite entry contains everything	Miltiadis Koutsokeras	
Paper	23	37 Fixed in v1.1	These is no clipping in effect here There is no clipping in effect here I don't think head and tail should be of type event_t, but rather int or int	Matthieu Nelmes	
300dpi	24	45 Fixed in v1.1	The correction depends on what was intended. (Neither line appears in 3rd and 4th line of code paste for D_ProcessEvents d_main.c in id-Software source release on git-hub.)	George Todd	
PlayStore	24	45 Fixed in v1.1	5.15 Audio system, footnote #24, "Wolfenstein" is misspelled "Wolfenstein" simple typo fix		
Paper		47 Fixed in v1.1	Footnote 24 reference to "Game Engine Black Book: Wolfesntein 3D" Should be "Wolfenstein 3D"	Tor H. Haugen @torh	
Тары	-		Trouble of	ioi i i i i i i i i i i i i i i i i i i	Source of the diagram is here https://github.
			There were no such devices. There can be 'Roland MPU-401 UART mode compatible' MIDI port on several possible locations(330h usually		com/nukeykt/PCDoom- v2/blob/master/i_sound.
Paper Paper	24 25	18 Fixed in v1.1	"MPU-402" "MPU-403" in Figure 5.48 What is the source of the diagram? "Sound propagation was used in a inventive in level E1M9" "Sound propagation was used in an inventive way in level E1M9" (or	Boris Chuprin Daniel Lo Nigro	h#L37
Paper	26	Fixed in v1.1	Note that there is no reverse gib sequence, the Arch-Vile Note that there is no reverse gib sequence, the Arch-Vile Note that there is no reverse gib sequence, but the Arch-Vile still	Alexandre-Xavier Labonté-	
т арсі	20	Fixed in v1.1	doesn't revive gibbed monsters. **Review gibbed monsters.** **Review gib		
Paper		55 Fixed in v1.1	for which a two frame animation cyles repeatedly for which a two frame animation cycles repeatedly	Miltiadis Koutsokeras	
Paper		65 Fixed in v1.1	"(monsters do no have a" "(monsters do no t have a" Consider revising "Semantically, think_ts are stored" as (May be grammatically incorrect but the code reads better sans plural):	tronster	
Paper	27	71 Fixed in v1.1	font change is subtle; looks to be calling out "think_ts" "Semantically, think_t are stored" "where packet sequence number is tracked on a per-peer (a.k.a. "where the packet sequence number is tracked on a per-peer (a.k.a.	tronster	
300dpi Paper		30 Fixed in v1.1 33 Fixed in v1.1	(a.k.a. node) basis." node) basis." "shows that I.A. ran in G_Ticker" "shows that A.I. ran in G_Ticker"	Marcell Baranyai	
Paper	21	86 Fixed in v1.1	"renders one out of very two columns" "renders one out of every two columns"		
300dpi	20	97 Fixed in v1.1	Jaguar board diagram caption item #1 (TOM) appears to actually be the 68000 on the board picture. 1 and 4 are swapped "Inside the machine: (1) Motorola 68000, (2) 2MIB RAM, (3) JERRY, (4 TOM)."	Dan Williams	
Paper		99 Fixed in v1.1	Footnote "managed a solid 20 fps" also appears at the end of the attached paragraph	Sun Williams	
300dpi		00 Fixed in v1.1	I had a functional port of the SNES Wolfenstein code running. I had a functional port of the Jaguar Wolfenstein code running. We sen		
Paper		02 Fixed in v1.1	We sent it to Atari, and they it to Atari, and they "They were give the green light for project" "They were given the green light for project"	Marcell Baranyai	
PlayStore	30	08 Fixed in v1.1	Z-Zero F-Zero Mode 7 does not do projection and does not apply to "sprites". It only		
PlayStore	31	10 Fixed in v1.1	"The SNES PPU's Mode 7 (capable of rotating and handles affine scaling and rotating a single background layer. Other projecting huge sprites)" SNES hardware handles calculating projection on a per-line basis.		
300dpi		12 Fixed in v1.1	Z-Zero [] the flight simulator "Pilot Wings", was []" and "[] the The videogame is called Pilotwings, not Pilot Wings (https://en.	Brian Gilbert @troldann	
Paper 300dpi		12 Fixed in v1.1 15 Fixed in v1.1	"Nintendo subsequently poached, Giles and Krister" "Nintendo subsequently poached, Giles and Krister" "Nintendo subsequently poached Goddard and Wombell."	Matt Riggott	
·			"Dylan Cuthbert would have joined too but a non-compete" "Dylan Cuthbert would have joined too, but he was prevented from doin	ı	
300dpi Paper		15 Fixed in v1.1 15 Fixed in v1.1	clause in his contract prevented him." so by a non-compete clause in his contract." citation is missing an attribution probably Jez San	Frank Polster	
			All known revisions of the MARIO/GSU chip have a hardware register to control their clock speed via a divide (however the "MARIO' revision used in Staffox carts appears to be unstable when using it to run at 21. MHz). The important thing here is the common misconception that the GSU-1 runs faster than the GSU-1, it doesn't- both are capable of the exact same speed/functionally. The only notable difference between		
			"The second generation (GSU-2) was the same processor (GSU-2) was		
300dpi	31	16 Fixed in v1.1	running at 21.4 Mhz with extra pins" larger game ROM. https://www.youtube.com/watch?v=hglnD9vAZcM Starfox did not use a GSU-1, it used an earlier chip revision labled on	Brandon Long	
			the board as "MARIO". This is possibly worth pointing out because it's the first known revision of the chip and it's the only known game to use (all later games were using chips labeled "GSU"). Also, this version of it	t	
			(all later garlies were soning units adverte GSU). Also, this version or in chip cannot run at 21.4 MHz (it has the register to change the clock speed, but the chip doesn't operate properly when using it, unlike the	,	
			GSU-1 and GSU-2) and has some differences in how it operates that make it incompatable with some games made for the later GSU		
			revisions (Stunt Race FX (a GSU-1 game) can run on a MARIO chip (a gimped speeds) but Star Fox 2 cannot run property on the MARIO chip		
			(but it can run on the GSU-1 and GSU-2)). Also maybe worth mentionin there are 5 known revisions of the GSUMARIAI Chip. MARIO (found in both SNU and acquisible forms in Study and to CSU-1 (SSU-1).	-	
			both SMD and epoxy blob form in Starfox carts), GSU-1, GSU-1a, GSU- 2, GSU-2-SPI. That said though, there aren't major known differences "The first generation (GSU-1) powered five games: Star with the GSU-1 ay (vs the GSU-1) and GSU-2-SPI (vs the GSU-1) set		
300dpi 300dpi		16 Fixed in v1.1 17 Fixed in v1.1	Fox" probably not worth dicussion in a book not focused on the SNES. Quote box has no name, just a "-" (could be my PDF viewer, Evince running on Fedora 29)	Brandon Long Dan Williams	
Paper	31	18 Fixed in v1.1	later worked on even more impressive' later worked on an even more impressive'	Rory O'Kenny	
Paper	32	21	Reality was able to implement diminished lighting for the walls, as seen in figure 6.10 (walls only, flats are always flate and flower for the walls and floors, as seen in figure 6.10 (replace the screenshot with a less affix one. EMB has nice and the floors of the	Alexandre-Xavier Labonté- Lamoureux (axdoomer)	
Paper	32	Fixed in v1.1	solid colors). areas with the diminished lighting on the floor clearly visible and it also uses color dithering Nintendo forbid blood' Nintendo forbade blood' The word 'forbade' is the past tense of the	Rory O'Kenny	
		Fixed in v1.1	word 'forbid'.	Rory O Kenny	
PlayStore Paper		21 Fixed in v1.1 22 Fixed in v1.1	Until them Until then Sony announced the joined venture called' Sony announced the joint venture called'	Rory O'Kenny	
_			Strictly speaking, no alpha-blending on PSX. Average, 2 additive, 1 subtractive blending mode with fixed ratios IIRC. Also mask/stencil bit		Would you be ok with
Paper		28 Fixed in v1.1	was converted to alpha-blending' that controls if transparency is applied or opaque. "capacity, 59 maps (30 from DOOM and 30 from DOOM II)"	Boris Chuprin	phrasing "50/50 blending"
Paper PlayStore		28 Fixed in v1.1 28 Fixed in v1.1	between the citations It seems it was 33 maps from Doom 1 and 26 from Doom 2 "can be optimized as 64 << u + v" "can be optimized as (u << 6) + v"	Frank Polster Klaus Post	
Paper		28 Fixed in v1.1	indicates a door requires the' indicates a door that requires the'	Rory O'Kenny	
			Also notice in the left column how the width of each square is always constant, a giveaway of affine texturing that contrasts with the perspective correct decreasing width seen in the right "left" and "right" are reversed. The left column shows perspective-		
300dpi	33	34 Fixed in v1.1	with the perspective correct decreasing within seen in the right tief the respective content. column. correct, the right column shows affect of the respectively the Panasonic 3DO GZ-1, Sanyo TRY 3DO, and respectively the Panasonic 3DO GZ-1, Goldstar 3DO, and Sanyo TRY	Brian Gilbert @troldann	
Paper	33	36 Fixed in v1.1	Goldstar 3DO. 3DO.		
300dpi		39 Fixed in v1.1	the CD-ROM. With a capacity more than 15 times more than what they were used to (650 MiB vs 4MiB), and they were used to (650 MiB vs 4MiB).	Marcel Lanz	
Paper PlayStore		50 Fixed in v1.1 50 Fixed in v1.1	"SCU DSP Math coprocessor @ 14.31818 MH" "SCU DSP Math coprocessor @ 14.31818 MHz" "Jim Bagle made the decision" "Jim Bagley made the decision"	Daniel Lo Nigro Daniel Monteiro	

	Page Status	Error	Correction Just to add to A.Montonen note: the whole Saturn transparency process is wonderfully and interactively explained here: https://www.mattgreer.org/articles/sega-saturn-and-transparency/ And yes, as always the case with console development, it was done with TV CRF screen final output	Name	Note from Fab
PlayStore	351 Fixed in v1.1	"Translucency was done in a peculiar way"	in mind. Worth a look. Note: VDP1 and VDP2 are further explained here: https://news. ycombinator.com/item?id=10963796 The VDP1 sprite transparency effect is both very limited (only one blend mode, only works on certain framebuffer pixel formats, sprite distortion can cause pixels to be drawn multiple times causing "glitches", doesn't belief with VDP2 pixels) and slow. As a compromise, the chip offers	Marco Pesce	
Paper	353 Fixed in v1.1	"Translucency was done in a peculiar way"	"mesh transparencies", where only every other pixel is drawn. It has been posited that when viewed on a CRT connected via composite video, the graphics will be blurred enough that it hides the meshing and functions as a passable simulation of transparency. One the properties of the	Anders Montonen	Need more info. I don't get it. (i had to resize to show
Paper	354 Fixed in v1.1	Resized screens look very ugly due to uneven pixel sizes	resolution with integral scaling ratio. Basically, you use integer scaling, but resizing to a size where pixels become visibly different from each other.	Boris Chuprin	the framebuffer -> CRT distortion from 320x200 to 320x240)
PlayStore Paper	368 Fixed in v1.1 370 Fixed in v1.1	which is is a rendering bug of the screen which is is a rendering'	which is a rendering bug of the screen which is a rendering'	Rory O'Kenny	
Paper	373 Fixed in v1.1	"Millions of hours were spent watching these tidy dots progress to the right."	"tidy" should be "tiny"	,,,,,	
	382 Fixed in v1.1	Windows 95 graphics drivers low overheard	low overhead	phg	
Paper	382 Fixed in v1.1	directly maps the DOOM's core framebuffer.	directly maps DOOM's core framebuffer.	phg	
PlayStore Paper	407 Fixed in v1.1 413 Fixed in v1.1	to provide the CPU and communication to the Amiga- complex nowadays but i feel it' horizontal Line of "N" box of some blocks is to long (first erromous block is "NULL 5000")	"by using" or "and used" complex nowadays but I feel it'	Marco Pesce Rory O'Kenny	
Paper	168/169 Fixed in v1.1	Page 279 has 'the engine fea-' and page 280 ends it with			
300dpi	279/280 Fixed in v1.1	'turess negative acknowledgements'	The word 'features' should only have one 's' The Saturn has 2MB of main memory (1MB SDRAM, 1MB DRAM). The 'April '94" document is either simply wrong, or represents a last-minute spec upgrade. (The same error is repeated in an April '94 developer		
Paper	348/349 Fixed in v1.1	"Main programming was done via the SH-2 processors connected to 1.5MiB of shared RAM"	relations presentation slide show. In a version of the same slide show, dated May 94, the main memory has been changed to 2Mb.] "Shipped with 4 MiB of VRAM (Video RAM) and 8MiB main RAM (extensible to 32 MiB officially, 64 MiB unofficially)" Some sources say it was sold with 16MiB main RAM. See http://www.keyra.	Anders Montonen	
Paper	90(94 in1. 1) Fixed in v1.1	"Shipping with 4 MiB of RAM (extensible to 32 MiB)"	org/TheBestOfNext/NeXTProducts/NeXTHardware/NeXTdimensionBoard/NeXTdimensionBoard.html	Boris Chuprin	
			There were around 6 types of CD-ROM interfaces in early 90s, with some cards including up to 3 at once. IDE/ATAPI stayed for the longest time, but disappeared from sound cards when they moved to PCI bus, years before they were gradually replaced by motherboard audio. Panasonic, Sony, Mitsumi let. interfaces were already frogotten		What is the suggested
Paper	61 Need more info	"extra Panasonic/Matsushita connectors allowed to survive"	somewhere around 1995. While rendering pixel-wide walls is *maybe* possible (but slow) on	Boris Chuprin	edit?
Paper	352 Need more info	"did not have the time to change the renderer to work with pixel-wide triangles like the PlayStation."	Satum, drawing floor/ceiling spans is not. This requires mapping texels sampled along diagonal line to a horizontal line on screen. But Satum/3DO forward texture mapper only maps rectangular axis-aligned source area to an arbitrary destination quad area. "Normal" reverse texmappers like PS GPU or Quake model soft renderer support 'UV mapping', they may arbitrary triangle, specified by (U,V) coords, to arbitrary triangle specified by (X,Y) coords. This is also called "skinning" when applied to character models. Satum cant do that, every quad that makes up a surface has a separate disjoint rectangular texture, their source texture typically larist a continuous "skin". my 5 cents. VDP1 transparency is slower than PS GPU(VDP1 texturing itself slower too), conflicts with distorted texmapping. VDP2	Boris Chuprin	What is the suggested edit?
Paper	353 Need more info	"Translucency was done in a peculiar way"	transparency better(& also free) but only works between full 2D layers, like SNES, both work best for 2D graphics and are incompatible with each other due to different pixel formats required. No use for VDP2 transparency hat would only work between the transparency blect and the background sky, punching through objects and walls in between. "Saturn is a mess" (C) John Camack Upd: sorp: "Saturn was nuts" https://witter.com/id_aa_carmack/status/30466224/8267031040 though I vaguely remember seeing other regaliev statements about Saturn somewhere Running in real mode does not disable extra instructions, just addressing and sets default operand size to 16(can be changed). Same addressing and sets default operand size to 16(can be changed). Same addressing and sets default operand size to 16(can be changed). Same fish prefix even in real mode. @ there is 'Unrea' mode. See things://wki.osdev.org/X86-64. Instruction. Encoding/Poprand-size_and_address-size_override_porfix. Sory. I don't get why you insist on this statement remaining. I myself words 386-only software that used 32-bit instructions but ran in real/Y68 mode, accessing extra memory via EMS. This is a	Boris Chuprin	Origin of the "Saturn is a mess" quote? Cannot find it
Paper	71 No fix	"behave like a very fast 8088"	perfectly normal(if crude) way of using 386+ CPUs in DOS. real mode 386 in not "fast 8088", it is 386 that only can use 1MB RAM and 64k segments.	Boris Chuprin	game had to work on 286 and 386, the statement holds true.
т ары	71 NO IIX		"SIMM slots for main i860 RAM" Some documents say it can be	Boils Chapilli	I think the readers will undestand this was for the
Paper	93 No fix	"SiMM RAM extension slots"	extended to 64, wiki says '256MB', but this doesn't match other sources The line is at correct position in similar picture on the page 219, but it is	·	i860
Paper Paper	209 No fix 227 No fix	Vertical line between G & H is at wrong position color = lightmapId[textureTexel]	too thin there for some reason color = textureTexei[lightmapId]	Boris Chuprin Frank Polster	
·		*	See my comment for page 352 about Saturn&PS texture mappers. Basically, forward texmappers can't do that. Did she say herself it was		Yes, she mentioned it on
Paper	344 No fix	"but a bug had forced Rebecca to render flats in software"	just a bug?	Boris Chuprin	her youtube channel
300dpi	328 No Fix (3 = 2 RAM +1 VR	AM) "and make everything work with "only" 3 MiB of RAM."	"and make everything work with "only" 2 MiB of RAM."	Guilherme Manika	
300dpi	No FIX (c.f. cult of person	ality "For \$100,000, Paul Rand was commissioned with a logo."	*For \$100,000, legendary graphic designer Paul Rand was commissioned to design a logo.*		
PlayStore	No Fix (Cannot see 323 "garbage")	E1M2 screen shot contains garbage from Snes9x emulation	Use an updated version >= 1.56 or another emulator to get screen shot. Doesn't seem to be an issue in the pdf at the pages 117-118 of the book		
Paper	113 No fix (duplicate)	Image overlaps one line of text at the bottom of the page 113, so that page 114 starts with "duce" PDF from play store has a mostly siloutte version of the next	(which is the pages 119-120 of the document)	Leonid Kapitonov	
PlayStore	87 Playbook bug (reported)	image with a few rectangular pieces showing correctly PDF from play store has a black rectangle covering a large	should look like original format version from play store		
PlayStore PlayStore	123 Playbook bug (reported) 136 Playbook bug (reported)	portion of figure 4.9 PDF from play store has screenshot in black and white	should look like original format version from play store should look like original format version from play store		
PlayStore	136 Playbook bug (reported) 180 Playbook bug (reported)	PDF from play store has screenshot in black and white PDF from play store has sections of black over the status bar image	should look like original format version from play store should look like original format version from play store		
PlayStore	182 Playbook bug (reported)	PDF from play store has sections of black over the status bar image	should look like original format version from play store		
PlayStore	187 Playbook bug (reported)	PDF from play store has sections of black over the images	should look like original format version from play store		
PlayStore	199 Playbook bug (reported)	PDF from play store has missing section on the left of the top map image	should look like original format version from play store		
PlayStore PlayStore	204 Playbook bug (reported) 206 Playbook bug (reported)	PDF from play store has missing sections in bottom image PDF from play store has missing sections in bottom image	should look like original format version from play store should look like original format version from play store		
PlayStore	206 Playbook bug (reported) 15 Fixed in 1.2	PDF from piay store has missing sections in bottom image "who have always sup-ported DOOM through its may iterations."	should look like original format version from play store many		
Paper 300dpi	15 Fixed in 1.2	iterations." Inconsistency with capitalization of Doom. Usually "DOOM" but sometimes "Doom" like in ToC on page 22. Also pp. 55, 106, 109, 118, 120, etc. is there a slory behind the all caps styling? Might make for an interesting Trivia" note.	many Replace "Doom" with "DOOM" or vice versa. Note from Fab: I use DOOM but kept quotes as the original version. Fixed in the "Content" page	Jeremy Dittmer	
			Consider hyphenating as "First-Person Shooter" (see: https://en. wikipedia.org/wiki/First-person_shooter)	. ,	
300dpi	26 No Fix	"First Person Shooter"	From FAB: No, I think it is a better fit for acronym FPS	Jeremy Dittmer	

	Page	Status		Error	Correction	Name	Note from Fab
300dpi 300dpi 300dpi	·	26 Fixed in 1.2 26 Fixed in 1.2 27 Fixed in 1.2		"Doom clones". "ever-lasting" "story of inventors, engineers and builders"	"everlasting"	Jeremy Dittmer Jeremy Dittmer Jeremy Dittmer	
300dpi		No fix, I think the sentence is 27 clear enough		"The middle ground was to allow people who had read about Wolfenstein 3D to get more out of this book without making it a necessity."	This sentence is unclear to me. What are you making a necessity? Are you allowing "people who had read about Wolfensiein 30 to get more out of this book without making it a necessity! to read the Wolfenstein 30 book? (Even though they did already read the Wolf3b book?) Here's a suggestion for a possible way to reword this: "The middle ground was to allow people who had read about Wolfenstein 3D to get more out of this book while also making the content accessible to first-time readers." (Assuming that this was your intended meaning.) Suggestion: use em-dash to set apart parenthetical Topics which would have been interesting to re-visit—such as the	Jeremy Dittmer	
300dpi		27 No fix	I have to confess I don't fully undestand things like "appositives" even after reading it twice. This is above my English level.	"Topics which would have been interesting to re-visit, such as the architecture of the VGA hardware, DOS TSRs, 386 Real-Mode, P.C Speaker sound synthesis, the PIC and PIT, DDA algorithms and a few others are mentioned but not extensively described since they were part of Game Engine Black Book Wolfenstein 3D."	architecture of the VGA hardware, DOS TSRS, 386 Real-Mode, PC Speaker sound synthesis, the PIC and PTI, DDA algorithms and a few others—are mentioned but not extensively described since they were part of Game Engine Black Book: Wolfenstein 3D.* Since the parenthetical content has a lot of commas, a version with em- dashes might be easier to parse (reference).	Jeremy Dittmer	
300dpi 300dpi		27 Fixed in 1.2 No fix, capitalized because it 29 spells FPS acronym.		"the restricted real-estate" "First Person Shooter"		Jeremy Dittmer Jeremy Dittmer	
				"Nobody even came close to	"Nobody even came close to challenging thembut for how long?" (No space after ellipsis or space		
300dpi 300dpi		29 Fixed in 1.2 30 Fixed in 1.2		challenging them but for how long?" "more powerful graphic adapters"	"more powerful graphics adapters" (Add "s" to graphic; "graphics	Jeremy Dittmer Jeremy Dittmer	
					Delete extra period.	,	
300dpi		30 Fixed in 1.2		"The once-standard 2 MiB of RAM was now forecast to be 4 MiB"	As an aside, in your Wolf3D book you have a footnote explaining: "This book uses IEC notation where MiB is 2^20 and MB is 10^6." Might be worth repeating in this book.	Jeremy Dittmer	
300dpi		30 Fixed in 1.2		"and make Quake development ASM intensive"	Readers may not be familiar that ASM = assembly. It's not clear what the relevance of coprocessors is here. Is it just	Jeremy Dittmer	
300dpi 300dpi		34 Fixed in 1.2 34 Fixed in 1.2	Added reference to Amiga coprocessors	"A CPU unable to perform floating-point operations and no co-processors." "An archaic graphic system"	relevant that they weren't present? Or is it related somehow to FPU capabilities?	Jeremy Dittmer Jeremy Dittmer	
300dpi		34 Done in 1.2		"Adjusted for inflation the figure would be, as of 2018: \$10,476 for a PC, \$377.00 for a SNES/Genesis, and \$1,134 for a Neo-Geo."	"\$377 for a SNES/Genesis" (Consider deleting cents on SNES price	Jeremy Dittmer	
300dpi		36 Fixed in 1.2		"Figure 2.3: Motherboard PX486P3 by QDI Computer, Inc"	"Figure 2.3: Motherboard PX486P3 by QDI Computer, Inc." (Append	Jeremy Dittmer	
			You are right but this technicallity would probably confuse the less technical		Technically, this methodograf currents up to source ISA cords since the		
300dpi		36 No fix. No fix, latex ran out of space	readers.	"allow four ISA cards" footnote 9: "Source: John C. McCallum survey." The	Technically, this motherboard supports up to seven ISA cards since the VLB slots were <u>backwards compatible</u> with ISA cards.	Jeremy Dittmer	
Paper (v	1.1)	39 and put it on the next page No fix, this is a quote that also		superscript 9 cannot be found in the text.	Place a footnote symbol where needed. I think "got exited" is bad grammar? Or a typo ("got excised")? I know this is a quote but you may want to consider adding "sic" or replacing		
300dpi		gives an insight in the 39 person's character		"The 386 actually had a small cache that eventually got exited"	with square brackets and a word that makes more sense grammatically, e.g., "[removed]".	Jeremy Dittmer	
300dpi		39 Fixed in 1.2		"Figure 2.5: Intel 486 architecture"	Scaling features to 2/3 of their previous size would only allow for a density increase of 1.5^2 = 2.25, not 5. Maybe there was something else	Jeremy Dittmer	
300dpi		39 Fixed in 1.2		"Manufacturing technology improved from 1.5 μ to 1.0 μ allowing five times more transistors on die."	going on that allowed for additional density increases but this phrasing communicates that the 5x density was due to the 1.5x smaller transistors.	Jeremy Dittmer	
300dpi 300dpi		40 Fixed in 1.2 41 Fixed in 1.2		"Andy Grove, "Only the paranoid survive"." "Figure 2.6: The Intel 80486 package"		Jeremy Dittmer Jeremy Dittmer	
		No fix, the sentence explicitly specify the die is in a		"Figure 2.6 shows the Intel 486 die featuring 1,180,235	Technically, the 486 die is not shown at all nor are any transistors. Only		
300dpi		41 package.		transistors inside its package."	the ceramic housing or package and a few of the pins are visible. Given the likely reading audience, most people probably know what MIPS stands for. But since you've defined DRAM, SRAM, FPU, etc. in footnotes, I think it would appropriate to define MIPS as well. You could do this parentheically, in a footnote, or even on the Y axis of your plot,	Jeremy Dittmer	
300dpi		42 Done in 1.2		"Charting the 486's MIPS performance"	e.g., "Million Instructions Per Seconds (MIPS)" "two times slower" or "twice as slow" are the correct idiomatic expressions here. Also, it's not clear who is suggesting the anticipated	Jeremy Dittmer	
300dpi		42 Done in 1.2		"twice slower than suggested."	speed. Maybe "twice as slow as the theoretical speed" or similar would work better.	Jeremy Dittmer	
Paper		44 Done in 1.2			"Starting from an empty pipeline, the 486 had a latency of 5 cycles compared to the 386, which had a latency of 4 cycles. This could be reworded to be clearer. The previous sentences is talking		
300dpi		44 Done in 1.2		"It was a difficult constraint to fulfill for physical reasons."	"the gap increasing by 50% per year"	Jeremy Dittmer	
300dpi		44 Fixed in 1.2		"the gap increasing by 50%/year"	The text of this chapter is clearly talking about conditions in the early	Jeremy Dittmer	
300dpi		44 No fix	I disagreed. It is kinda cool to see how it evolved afterward.	Graph in Figure 2.11 shows dates through 2005 even though the section of the book is discussing factors relevant to the 486 in the early 1990s.	1990s — having the plot end in the early 1990s or highlighting the time period that is relevant to this chapter would be more consistent with the narrative. "complete" is a transitive verb and should always have an object (you	Jeremy Dittmer	
300dpi		45 Done in 1.2		"Otherwise, additional Wait States were inserted in order to wait for the request to complete." "A two cycle bus request was the fastest a CPU could	always complete something). Possible corrections: "to finish" or "to be	Jeremy Dittmer	
300dpi		45 Done in 1.2		achieve." Missing hyphen in multiple-word adjective: "two-cycle".		Jeremy Dittmer	
Paper (v	1.1)	46 Done in 1.2		Under Fig. 2.17"1. Use the 128 dictionary directory entries."	Under Fig. 2.17"1. Use the 128 directory entries." or "directory dictionary entries." - "SRAM CACHE" -> "L1 CACHE" (since the L1 cache was just	Connor Cassidy	
			Disagree with the problem stated. If the reader followed the previous drawings, it is obvious the rectangle is the		introduced); you could also note that the cache is SRAM in the diagram (you discuss SRAM vs. DRAM below) but in the context of the previous text, the reader wouldn't necessarily know that L1 cache and SRAM cache are synonymous.		
300dpi		46 No fix.	CPU boundaries. Cache hit rate is self-	Figure 2.13 doesn't fit with the narrative text. "Designing the cache to yield the highest hit rate possible"		Jeremy Dittmer	
300dpi		46 No fix	explanatory	- "hit rate" is never defined."Figure 2.14: Dynamic RAM and its two elements holding one		Jeremy Dittmer	
300dpi		47 Fixed in 1.2		bit of data"	Append period for consistency with other figure captions.	Jeremy Dittmer	
300dpi		47 Fixed in 1.2	I think it is obvious that two lines makes the difference	"Figure 2.15: Static RAM made of six elements"	Does this hold one bit of data also (like the DRAM figure)? Provide a little more info about voltage variation detection: what it is and	Jeremy Dittmer	
300dpi		47 No fix	more noticable faster.	What is "voltage variation detection"? "Since it is located inside the chip" is ambiguous (there are lots of chips on the motherboard, the DRAM is composed of		Jeremy Dittmer	
300dpi		47 Done in 1.2 No fix, this is a common		chips, etc.) "Its small size (8 KiB) and heavy duty"		Jeremy Dittmer	
300dpi		48 expression		This is an odd usage of "duty" "Within each page there are 128 lines of 16 bytes (called	Consider: "duty cycle" or "usage" or "utilization"	Jeremy Dittmer	
300dpi		48 Done in 1.2		cachelines)." Parentheses are unnecessary since this sentence is defining cachelines. "Figure 2.17: How a memory address is interpreted by the	"Within each page there are 128 lines of 16 bytes called cachelines."	Jeremy Dittmer	
300dpi		48 Fixed in 1.2		cache controller" "Upon receiving a 32-bit address access request, the cache		Jeremy Dittmer	
300dpi		48 Fixed in 1.2		controller splits it into three fields." This sentence doesn't properly introduce the ordered list that follows (which is not a list of the three fields).	"Upon receiving a 32-bit address access request, the cache controller splits it into the three fields shown in figure 2.17 and performs the following steps."	Jeremy Dittmer	

Pa	ige Status		Error "Update the flag F in the directory entry to update the LRU	Correction	Name	Note from Fab
300dpi	48 Fixed in 1.2		"LRU" is used here without being defined.	Move LRU footnote (22) from p. 49 to this page.	Jeremy Dittmer	
оооды	40 T MOD III 1.2		"Sequence controller" is a strange neologism, to the best of	more and resulting (EE) more p. 40 to this page.	ordiny Billing	
Paper (v1.1)	56 Fixed in 1.2		my knowledge not found in period literature and never used by IBM. Just do what IBM did, and call it "sequencer".	"sequencer"	Michal Necasek	
			"Graphic controller" is an invented term, completely redundant and confusing. It is "graphics controller". See IBM			
Paper (v1.1)	56 Fixed in 1.2		EGA/VGA technical references. "The VLB (VESA Local Bus) doubled ISA's bus data lines to	"graphics controller"	Michal Necasek	
			32 bits and increased its frequency to 33 Mhz, making it up to 10x faster when compared to the slowest ISA bus." The			
			original PC bus ran memory accesses with four clocks per bus cycle, so the bandwidth was 4.77/4=1.1925 MB/sec. VLB			
			could run 32-bit zero wait state cycles, so 133 MB/sec at 33 MHz. Which is about 100x faster than "the slowest ISA bus".			
			Alternatively, the fastest standard 16-bit ISA bus at 8.33 MHz could transfer 8.33 MB/sec (see ISA and EISA Theory of			
			Operation by Edward Scolari). Some boards could run faster, if one were really really lucky it might be possible to push past			
			10 MB/s on ISA. Then VLB was about 10x faster. Of course that's all theoretical bandwidth and the real numbers looked	Either "10x faster when compared to the fastest ISA bus" or "100x faster		
Paper (v1.1)	62 Fixed in 1.2		pretty different "There was also a combo LAPC-I card which combined both	when compared to the slowest ISA bus".	Michal Necasek	
			the adapter and an MT-32 successor, the CM-32L, inside a single ISA card." The CM-32L was not a successor, it was an			
			alternative model with no front panel. The MT-32 was meant to be used with other musical instruments (keyboards etc.)			
Paper (v1.1)	70 Fixed in 1.2		while the CM-32L was meant to be attached to a computer. Different target markets.	"an MT-32 variant, the CM-32L"	Michal Necasek	
Paper (v1.1)	72 Fixed in 1.2		2nd paragraph: "An user"	"A user"	Christian Hein	
Paper (v1.1)	74 Fixed in 1.2		"Finding a cool BSS" "Various tricks had to be used, among them faking a	"Finding a cool BBS"	Vinícius Oliveira	
			keyboard Ctrl-Alt-Del reboot to reset the CPU without actually rebooting." The keyboard controller (really a microcontroller)			
			on the system board was used to reset the CPU directly, by generating a RESET signal. Please remove the bit about Ctrl-			
	No fix, this is a wolf3D book issue. Opened https://github).	Alt-Del unless you can show at least one piece of software which actually did that. The keyboard controller reset was			
Paper (v1.1)	com/fabiensanglard/gebbwo 79 3/issues/15	olf	designed in, because the PC/AT BIOS itself needed to switch to protected mode and back when testing extended memory.	"Various tricks had to be used, among them using the keyboard controller to reset the CPU without actually rebooting."	Michal Necasek	
			"In 1987, three Ph.Ds (Fred Crigger, Ian McPhee, and Jack Schueler) made it the first C compiler to run on an IBM PC."			
			No they did not, obviously. Watcom C probably wasn't even among the first ten C compilers on the PC. There had been			
			PC C compilers since 1982-1983 Lattice, Aztec, Microsoft, DeSmet, and many others before Watcom. What Watcom			
			had was a fairly advanced code generation technology, used with their FORTRAN 77 compilers. At some point they added			
			a C front end and ported everything to the PC. Also according to Wikipedia, Watcom C 6.0 (the first PC version) was			
5 (40)			released in 1988, not 1987. And yes, they used version 6.0 because that was higher than MS C 5.0/5.1 current at the	"In 1988, three Ph.Ds (Fred Crigger, Ian McPhee, and Jack Schueler)		
Paper (v1.1)	80 Fixed in 1.2		time.	adapted the Watcom C compiler to run on an IBM PC." This sentence (which occurs in the context of describing Motorola	Michal Necasek	
				68030) suggests that 68030 was a RISC architecture. It was not, due to many factors (https://en.wikipedia.org/wiki/Motorola_68000_series).		
				Also, "where load and store have to be done manually" is somewhat obscure as well (manually as opposed to what?) This is probably better		
				phrased as "where instructions operating on the memory directly are uncommon - so e.g. in order to increment a variable, you need to load it		
				into the register, increment it, and store back". Again, this was not a problem of 68030 whose instructions accepted memory operands, so might be the best correction would be: "Sixteen general-purpose		
			" Sixteen general-purpose registers were available which is pretty common for a RISC architecture where load and	registers were available which is more typical for RISC architectures, where instructions operating on		
300dpi	89 Fixed in 1.2		store have to be done manually"	the memory directly are uncommon, however the processor was CISC."	Arciel Rekman	
300dpi	100 Fixed in 1.2		"No doubt the colortone was the subject of much debates at NeXT headquarters."	Should be "much debate" (or possibly "many debates")		
300dpi	109 Fixed in 1.2		"Reportedly due to Steve Jobs disdain for video games,"	Missing apostrophe for the possessive. Should be: "Reportedly due to Steve Jobs' disdain for video games,"	Hamza Haiken	
	No fix, the screenshot illustrates from what id					
	Software transitioned from. They never used Watcom		In section 2.9 Programming you show Borland C++ IDE screen. But the game was actually compiled using Watcom			
	editor. They used Borland fo Wolf3D so the screenshot is		tools, not Borland's. I know that it was written and edited on NeXTSTEP, but it would probably be less confusing for the			
300dpi	139 appropriate.		reader to see Watcom's editor here, not Borland's.	No place credit this, and only Bobby Prince can tell the truth, but here is	TeenAeg	
				the song that inspired (maybe copied the riff?) At Doom's Gate E1M1 - Quasimodo - Down And Out: https://www.youtube.com/watch?		
			Addition (something never mentioned but good to know): Besides Popular Metal bands, Bobby Prince scouted local	v=NGcUhAjW-6o More details about the creation of the song here: https://www.facebook.com/29448667965/posts/from-carl-edge-on-		
			record stores for metal music references, some of them being local metal bands from Texas. Which points to, that the main	recording-the-original-45-single-down-and-out-which-was-used- f/10152515736177966/ The song was re-purposed for the show		
Paper	NO fix, seems to be unverifi 140 story.	ed	inspiration from At doom's gate came from Quasimodo's 1984 single Down and out.	Fishmaster which came in Summer 1993 before Doom's release in winter 1993.	R3tr0D3vR3X	
Paper (v1.1) Paper (v1.1)	146 Fixed in 1.2 153 Fixed in 1.2		1st line: "id software" 2nd paragraph: "id software"	"id Software" "id Software"	Christian Hein Christian Hein	
raper (v1.1)	155 FIXEU III 1.2		" WATCOM.EXE and the WLINK.EXE linker which	iu Soltware	Chilstian Hein	
			generated DOOM.EXE." To the best of my knowledge, there was never any WATCOM.EXE. The 32-bit compiler			
			executable was WCC386.EXE (WCC = Watcom C Compiler). Same nonexistent WATCOM.EXE is referenced on page 160 in the diagram. Also, if you can find out, it would be great to	" WCC386.EXE and the WLINK.EXE linker which generated DOOM. EXE." I notice that later wcc386p.exe is referenced, which was the		
Paper (v1.1)	157 Fixed in 1.2		know which NFS client id used, since there were so many.	protected-mode version of the 32-bit Watcom C compiler.	Michal Necasek	
			"There is almost twice as much code [in Doom] as in Wolfenstein 3D."			
Paper (v1.1)	162 Fixed in 1.2		This seems to contradict Figure 5.6, where Doom only has about 1.4 times as many LOC as Wolf 3D.	Remove sentence or correct it to say something like "There is almost 40% more code than Wolfenstein 3D had."	Christian Hein	
			"Upon starting up on NeXT the memory manager allocates 4 MiB of RAM and not a byte more. This is done in order to			
			make sure the advertised minimum 4 MiB configuration is sufficient." That does not add up. A PC with 4 MiB RAM was			
			never ever going to have 4 MiB of memory available for DOS extended application use. If DOS/4GW could (and I believe it could) unify conventional/extended RAM, conservatively there			
			may have been only 3 MiB extended memory plus at most a few hundred KiB conventional RAM. Even in the best case,			
			more than about 3.5 MiB available memory is unlikely to be available. So how much did DOOM really need?			
			Note from FAB: It needed 4MiB. Once in protected mode	If the NeXT version really used 4 MiB, please explain why the DOS		
			there was no more conventionnal or extended memory. If you had 4 MiB of RAM on your machine you had 650	version needed less.		
			conventional, 384 high memory, and 3 MiB extended in real mode. In protected mode, you had 4MiB flat addressing	Note from FAB: I am 100% sure DOS version required a minimum of 4 MiB RAM. The DOS extender placed the CPU in protected mode which		
Paper (v1.1)	172 No fix Nice trivia to add but the page	ge	memory.	gave the CPU access to the whole RAM.	Michal Necasek	
	is pretty full. I prefer to keep this name since people who					
	want to explore can search UDOOM.EXE whereas					
	searching for DOOM.WAD v return DOOM1's wad.	will				
	Besides, website hosting WADs often using this nami	ng		The Ultimate Doom IWAD was named DOOM.WAD in the original games (including the id Anthology); it was shipped as UDOOM.WAD or		
300dpi	to be able to keep all WADs 174 the same folder.	in	UDOOM.WAD	DOOMU.WAD in collections such as doomgod.com's to separate it from the first DOOM.WAD.	Stephen Kitt	
Paper (v1.1)	180 No fix, this is how it is called	I in the source code. I prefer to ke	e "and one dirtybox (used as a "dirty rectangles")."	I'm not familiar with dirtyboxes, but perhaps something like "used for "dirty rectangles" or "storing "dirty rectangles" was meant here.	Christian Hein	
				April 1994 doesn't make sense. The SNES port of Wolfenstein 3D was released in Februrary 1994, id Software would have stopped		
300dpi	197 Fixed in 1.2		In April 1994, the contractor was nowhere to be seen.	development of DOOM to finish the SNES port and adopted BSP trees for Doom between April 1993 and October 1993.		
300dpi	197 Fixed in 1.2		" rendering three things."	Since an enumeration follows, the full stop should be a semi-colon instead: " rendering three things:"	Hamza Haiken	
Paper	228 Fixed in 1.2		Missing figure number: "In figure ?? you can see how the original []"			
. apoi	220 1 MOD III 1.2		original []			

	Page	Status	Error	Correction	Name	Note from Fab
300dpi		230 No fix (cannot find the ??)	"Figure ??"	The cross reference is invalid and got outputted as "??"	Hamza Haiken	
Paper (v1.1)		255 Fixed in 1.2	Before Carmack quote: "id software"	"id Software"	Christian Hein	
Paper		258 Fixed in 1.2	Sound propagation was used in an inventive in level E1M9	Sound propagation was used in an inventive way in level E1M9	Chris Good	
Paper (v1.1)		264 Fixed in 1.2	2nd paragraph: "direcly"	"directly"	Christian Hein	
Paper (v1.1)		267 Fixed in 1.2	1st line: "spawing state"	"spawning state"	Christian Hein	
Paper (v1.1)		318 Fixed in 1.2	"It was reportedly capable of rendering 76,458 polygons/s which meant about 15 fps for Starfox ."	"It was reportedly capable of rendering 76,458 polygons/s which meant about 15 fps for Star Fox. " "Star Fox" is unconsistantly spelled; in two instances it is spelled as a single word, which appears to be wrong. Also reported on GitHub (PR #34).	Julien Bono (@fetzu)	
Paper (v1.1)		318 Fixed in 1.2	"Upon witnessing Starfox 's phenomenal success, other studios became interested in the technology."	"Upon witnessing Star Fox 's phenomenal success, other studios became interested in the technology." / "Star Fox" is unconsistantly spelled; in two instances it is spelled as a single word, which appears to be wrong. Also reported on GitHub (PR #34).	Julien Bono (@fetzu)	
300dpi		320 Fixed in 1.2	First revision of MARIO is clocked at 21.4Mhz but it has an internal divider that halves it to 10.7 MHz. Second generation doesn't have that divider and the speed is the full 21.4Mhz.	To mong. The reported on Surface (177,00-1).	Manuel Sagra	
•		No fix, I cannot understand	In the sketch the blockmaps are numbered. The "8" is		Manuel Sagra	
300dpi		320 where the error is.	covered with some sort of another symbol like a "c"			
300dpi		333 Fixed in 1.2	On October 27, 1997, Sony gathered	1997 doesn't make sense. It's 1993 https://www.kotaku.com. au/2014/12/what-jurassic-park-cid-for-the-original-playstation/ Just my two cents on this as I am working with the Doom 3DO source code and have some knowledge of the 3DO hardware.	Manuel Sagra	
				A primary reason Rebecca had to software render the flats. Is that it wasn't as easy (or possible) to fully simulate the horizontal span renderer with the CEL engine per scarnine. The vertical wall columns where more fitting for this, as the walls are prependicular to the floor and the player only rotates around the vertical axis. Thus, a vertical column on screen space will always map to a linear sequence of pixels on the bitmap. The CEL engine is a forward renderer, so it always reads a screen. The way the flats were drawn in the original Doom pixeline, was to render horizontally in the screen but sample at an arbitrary slope from the bitmap, exactly the opposite than CEL engine is accustomed. Have always only a lucky occurence that because of the limited player degrees of freedom, the rendering of the wall columns would at least match correctly with a linear bitmap sampling using the CEL engine. And a way would be to massively after the might of the proper relate soften and the same shape that the control of the same shape that		
Paper		No fix, this is way too much 344 info.		From what I've discovered, the CEL engine is still used to render the horizontal spans, but just pointing the start of each scanline at sequencial position in a big buffer and without any scaling involved. Then, the software renderer will alter the texture data inside the buffer, doing a regular inverse mapping, sampling at an arbitrary slope from the bitmap and writing linearly back in the buffer, is till like the original Doom software renderer did. This seems a bit of an overfull, but the reason that rendering directly to the videoram wasth prefered, is that the videoram is not linear and is 16bit, while the CEL texture prepared for the fats is linear and 8bpp, more easy to software rendering in exhibit would be more solven by the prefer by the videoram is not linear and solven professed in the solven are not exhibit the videoram is not linear and solven by the software rendering in 4bit would be more solve trying to mere pish) and low 4bit pixels in one level, while going directly for 16bit would need the flat textures and the CEL buffer to take double the memory space). Another advantage of using CELs everywhere, even in the flats, is that there is a hardware function to shade a CEL. This sinch towever smooth shading gouraud but rather a single shade value for a whole CEL. But since we have broken flats as and controllar CEL spars, we can shade uniquely every scanline, and the depth value will be only the same in a single horizontal scanline, and child will be only the same in a single horizontal scanline, and child will be only the same in a single horizontal scanline, and child will be solved the same and the CEL sexture, we get the depth shading using the hardware as a bonus. It's also the case with spitting walls into wall column CELs.		
Paper		344 Into.	"with the release of the XBox"	splitting wails into wall column CELs. "with the release of the Xbox"	Michael Kargas	
Paper		351 Fixed in 1.2	release of the Abox		James Mansfield	
		No fix, the end of the section discuss what happened to Sega after the Saturn. The Dreamcast and its protection	"The copy protection was hacked early on. Electronic Arts refused to release its popular E.A. Sports games on the	I believe that this references the Sega Dreamcast, rather than the Sega		
300dpi		353 issues are appropriate.	platform"	Satum (which is the console being discussed)	Dan Bassi	
Paper		401 Fixed in 1.2	from player to player .	from player to player).	macias	
300dpi		407 Fixed in 1.2	(which generally varies from player to player)	Pipe instead of close bracket	Obsisting Help	
Paper (v1.1)	27 (33	409 Fixed in 1.2	3rd question: "id software" INPUTS underline and OUTPUTS underline are not at the	"id Software"	Christian Hein	
Paper	27 (33 v1.1. PDF)	Fixed in 1.2	same height (not aligned), messing with borderline obsessive crazy people ^^		Pierre CHARLES	
300dpi	4	7-48 Fixed in 1.2	"no contention with other devices" is missing a period at the end of the sentence	"no contention with other devices."	Jeremy Dittmer	
300dpi		1) Fixed in 1.2	Model dials 1-(570)-234-0001	Model dials 1-(570)-234-0003	Maxim Krivenkov	