Algorithm	Hashcat mode	Hashcat-legacy	MDXfind algo	MDXfind extra_params	John CPU	John GPU	hashes.org algo	hashes.org comment	class	Example Hash (plain: rosetta, or as specified)	Notes
IPB2+, MyBB1.2+	2811		MD5-MD5SALTMD5PASS		dynamic_12	not supported?	IPB / MYBB			cb5e393cf9d97d19a5d797be77c9ce6a:UhdG	
Joomla	11		MD5PASSSALT		dynamic_1 (len 1-23); dynamic_2001 (le	not supported	JOOMLA			25e0e3a09fb987a37f3e57b3c77debb4:AnTomd3E87cHv8hYodF1	
MD4	900		MD4		Raw-MD4	Raw-MD4-opencl	MD4			d9e2bf8ca98bfadf4eac11b0c2d5b644	
MD5	0		MD5		Raw-MD5	Raw-MD5-opencl	MD5			975790dfb2854c88094fe62477a7d5f3	
md5($pass.$salt)	10		MD5PASSSALT		dynamic_2001; dynamic_1016 (long salt	not supported?	MD5(PLAINSALT)			cfc2105a5868d74cd4286af6052e98e7:1b8dnTra	
md5($pass.md5($salt))	not supported	3720	MD5-PASS-MD5SALT		dynamic_1011 ?	not supported?	MD5(PLAINMD5(SALT))			ddff8db4a0e67f368b20936cc8f4406d:ZqVGaKp	
md5($salt.$pass)	20		MD5SALTPASS		dynamic_4	not supported?	MD5(SALTPLAIN)			6812da91ee7426c161a69aa4d5d373c5:61g3p16	
md5($salt.$pass.$salt)	3800		MD5SALTPASSSALT		dynamic_5	not supported?	MD5(SALTPLAINSALT)			be59cd7b0760c99f42bf010405c91e94:XZZqVGa	
md5($salt.md5($pass))	3710		MD5SALTMD5PASS		dynamic_9	not supported?	MD5(SALTMD5(PLAIN))			5c9c872a5b69f166e71ff4a1e5607cf7:hMXRLhX	
md5($salt.md5($pass.$salt))	4110		MD5-SALTMD5PASSSALT		dynamic_11	not supported?	MD5(SALTMD5(PLAINSALT))			4bea0721f00e194e440c9c2332d55624:tj8lZLT	
md5($salt.md5($salt.$pass))	4010		MD5-SALTMD5SALTPASS		dynamic_10	not supported?	MD5(SALTMD5(SALTPLAIN))			439b6d1a6aa03944d3dc139bbf1f042f:59rHLNz	
md5(md5($pass))	2600		MD5	-i2	dynamic_2	not supported?	MD5X2			bd62daf88a5f6d734e91228e7f2e540a	
md5(md5($pass).$salt)	2611 / 2711		MD5-MD5PASS-SALT		dynamic_6	not supported?	VBULLETIN			991adb53a943df0a8907b3541e52a2db:uGh	
md5(md5($pass).md5($salt))	3910		MD5-MD5PASSMD5SALT		not supported?	not supported?	MD5(MD5(PLAIN)MD5(SALT))			cd2ffa74799274cd9fb505038501947d:xHwahMX	
md5(md5($salt).$pass)	not supported		MD5-MD5SALT-PASS		dynamic_8	not supported?	MD5(MD5(SALT)PLAIN)			a325636d9a19848a9c1715985b629243:guxXj61	
md5(md5($salt).$pass)	3500	3500	MD5	-i3	dynamic_3	not supported?	MD5X3			dea55753a4991cf1d8a5e8bf0871fd48	
md5(md5(md5(md5($pass))))	not supported		MD5	-i4	dynamic_1001	not supported?	MD5X4			83b2123a19be6713890d5eb4cec458f0	
md5(md5(md5(md5(md5($pass)))))	not supported		MD5	-i5	dynamic_1002	not supported?	MD5X5			5381baf622596c5d73d0e693827e303c	
md5(sha1($pass))	4400		MD5SHA1		dynamic_22	not supported?	MD5SHA1			cbf32826d7200ba083767f3685a711a9	
md5(sha1(sha1($pass)))	not supported		MD5SHA1SHA1		dynamic_1018	not supported?	MD5SHA1X2			2db0a6ad192b03a28775e627b246721f	
md5(sha256($pass))	not supported		MD5SHA256		not supported?	not supported?	MD5SHA256			271749ec9c47a6afe99da5dc0d508a8b	
md5(strtoupper(md5($pass)))	4300		MD5UC (with -i2 = MD5UCx2?)		not supported?	not supported?	MD5UCMD5			94b9a9d316bf89ef7e0ef48c36fac57c	
MySQL4.1/MySQL5	300		SQL5		mysql-sha1	mysql-sha1-opencl	MYSQL5			8236c4133430071e41c5103876d103299d348814	
NTLM	1000		NTLM		not supported?	ntlmv2-opencl (?)	NTLM			a2dde7c8056b54f9f419fc9b62cb6611	
osCommerce, xt:Commerce	21		MD5SALTPASS		Osc; dynamic_4	not supported?	OSCOMMERCE			3c415b5a7f60c974c4de8c631e5c05f0:ab	
Radmin	9900		RADMIN2		Radmin; dynamic_1010	not supported?	RADMIN2			42c824c35d2544e0bc95f70e678d0577	
SHA1	100		SHA1		dynamic_1023	Raw-SHA1-opencl	SHA1			d21af7ece046af0e12d3c38472792cd5f081c39f	
sha1($pass.$salt)	110		SHA1PASSSALT		dynamic_24	not supported?	SHA1(PLAINSALT)			e27f1a504fa8d091995bcbdc844ecc95bd922e18:5X4aMz	
sha1($salt.$pass)	120		SHA1SALTPASS		dynamic_25	not supported?	SHA1(SALTPLAIN)			ce37bde60c47d84cbdaf69bcd3d024be3b8918fa:2VrVff	
sha1($salt.$pass.$salt)	4900		SHA1SALTPASSSALT		dynamic_1504	not supported?	SHA1(SALTPLAINSALT)			1edf02c870b44a560cd6714080fcbb34603e2b36:h9wJfj	
sha1(md5($pass))	4700		SHA1MD5		dynamic_1024	not supported?	SHA1MD5			3bf822d967c6059cc1bb6713421eecf065b840e9	
sha1(md5(md5($pass)))	not supported		SHA1MD5MD5		dynamic_1025	not supported?	SHA1MD5X2			38b10490b54283ec6a45a5f0dc27529b84ed2588	
sha1(sha1($pass))	4500		SHA1	-i2	dynamic_1026	not supported?	SHA1X2			e74b7ca3b557563710b439f7f666deee6aab007b	
sha1(sha1(sha1($pass)))	not supported	4600	SHA1	-i3	dynamic_1027	not supported?	SHA1X3			1caaf7f2d96062e475905da8eb1434376b0e8bf8	
SHA1.Substr(0, 32)	not supported		SHA1		not supported?	not supported?	CUT0-32SHA1			d21af7ece046af0e12d3c38472792cd5	
SHA256	1400		SHA256		Raw-SHA256, Raw-SHA256-ng, dynami	Raw-SHA256-opencl	SHA256			27c3d3b047672ba2cf4abd7688e81f4fbb044eadeec897b665fc76636069daa7	
sha256($pass.$salt)	1410		SHA256PASSSALT		dynamic_62	not supported?	SHA256(PLAINSALT)			764f15cb8693554b353d381afcb26d1581ed13ce4be97dc6ae6993c657778c2c:9e01rQ	
sha256($salt.$pass)	1420		SHA256SALTPASS		dynamic_61	not supported?	SHA256(SALTPLAIN)			9766ff25309a963469057ce375e5d4c359fbc635213c1b4b793b81d58b33d902:PAky1i	
SHA512	1700		SHA512		Raw-SHA512, Raw-SHA512-ng, dynami	Raw-SHA512-opencl	SHA512			a914375619cd494d3079f93dd4a7ed8848fbe4da9929700cdc4c31819a3f0685ec3f7e100762826f16c9a9a1f5983e1a25af01058ab0a178190322f8661f8137	
sha512($pass.$salt)	1710		SHA512PASSSALT		dynamic_82	not supported?	SHA512(PLAINSALT)			2efd3afb4c761d0bfe727bae35c18243f0119a4f2c4eb972c39b84933b0630e9ec64f564e24ea8c49e3e4b45d24117f1d5d5e983a9c62fd3ba0a53e084ae8b2d:fAWQu	
sha512($salt.$pass)	1720		SHA512SALTPASS		dynamic_81	not supported?	SHA512(SALTPLAIN)			42eff3c389844d5a196b1b06c2a3495131005894e0472a8003dc00de9e09711db2d1ea3c96a6ea1f086b5d2139851fa05071aad61fea2990881257df59c93579:iZizSY	
SMF < v1.1	121		SMF		dynamic_37 ? (sha1(lc($u).$p))	not supported?	SHA1(SALTPLAIN)	(using lowercase username as salt)		c127b5d28f587364a7c034865384c53040226025:testuser	
vBulletin < v3.8.5	2611		MD5SALT		not supported?	not supported?	VBULLETIN			896bdefea73a4d4ffd6218267b753530:Hgd	
vBulletin > v3.8.5	2711		MD5SALT		dynamic_1007 ? (md5(md5($p).$s))	not supported	VBULLETIN			bc926ffde1bab8659f4a3ab0f30f418e:9e01rQF9WEXZ8I6mKpb261g3p16mft	
phpass	400		PHPBB3			phpass-opencl	WORDPRESS / PHPBB3	(depending on the signature)		P68EpAeraqYY3OYBMWpG6I//eL2e5IZ0	
SHA224	1300		SHA224		dynamic_50	not supported?	SHA224			223b5c5625a10b045533f2f731dc47f572b3070feaf0838dffba0dbb	
Whirlpool	6100		WRL		whirlpool	not supported	WRL			b6b0e6ed07a82829cf9d9e93568e5224debefa714c9531a86b9365f8ec38d7eac7106778be2c1570367511ed635e45f3dd77893918bbdcb2e7c9b67dff9ffd97	
plaintext	99999		NULL		plaintext	n/a	PLAIN			rosetta	
LM	3000		LM		LM	LM-opencl	LM			4b4aa8a8a048c29caad3b435b51404ee	
Half MD5	5100		MD5 (automatic partial match)		?	?	CUTn-16MD5	(n denoting the starting position n>=0)		975790dfb2854c88	
Bcrypt	3200		BCRYPT			bcrypt	BCRYPT			$2y$12$de2iJf8sr1/vTae49JQ8y.qTnqmAAycOwS5gYMu3TSrQLN9ZHEd7a	
md5(unix)	500		MD5CRYPT				MD5CRYPT			1AQQ4Z4bg$RIsaaAerjDK0FYJ0qx4Uj1	
MySQL 3	200		SQL3				MYSQL3			41752a086e75f00c	
Drupal 7	7900		not supported				DRUPAL7			S5PpDG6SBfYKrvTHtiMzdZBWjwqOTTiW1Qntn18f4jO2PFhkrchMP	
MD2	not supported		MD2				MD2			31f9be2cfbc2ac8f6cf5f6de1c358f2c	
Apache $apr1$	1600		APR1				MD5APR1			$apr1$kVztWGHo$NxMuZlfKTGFq1QAKFHPfZ/	
sha256crypt	7400		SHA256CRYPT				SHA256CRYPT			5yuPFJGtfUjuJbffWSx3RBzZ3oPkdslEfjGSJN7U0m9moPrqwHrhhtKDsofX0	
sha512crypt	1800		SHA512CRYPT				SHA512CRYPT			6GpbaJosCgtCi057xSEa7F43GgpZ6RyJuYQAMHcDfsHipMxZFk5ogbXB1IxmEUOoHMYRk1cJCOLCQVKXEtWqs198CSvt9enTrgYkJUf.	
sha384	10800		SHA384				SHA384			c91ac188daac08cf79159835683e3f907c97b25652e01c9c779874589da77e0719bfc0216bba661205d1384536288343	
ripemd128	not supported		RMD128				RIPEMD128			128ff0f4059533e0e23652cbdb97d23c	
ripemd160	6000		RMD160				RIPEMD160			20396cba20e01e0abb35c840924f6d31ab56f677	
ripemd256	not supported		not supported				RIPEMD256			fe662e2a9a42ac28567858835728a902db19ee39733cb81c8bf0a8fb163ffef5	
ripemd320	not supported		not supported				RIPEMD320			b05513f048c2096c2472980dc4893a65e4a2b552a6fa652983d92627ebc120cf58d01c56eb9d6960	
md5dcab (order of 32bit values)	not supported		MD5dcab				DCAB-MD5			77a7d5f3094fe624975790dfb2854c88	
md5bcad (order of 32bit values)	not supported		MD5bcad				BCAD-MD5			b2854c88094fe624975790df77a7d5f3	
md5cdab (order of 32bit values)	not supported		not supported				CDAB-MD5			094fe62477a7d5f3975790dfb2854c88	
md5(md5($plain, true))	not supported		MD5RAW				MD5RAWMD5			ee60a4f373b088203688211b5f3f56f5	
md5(str_reverse(md5($plain)))	not supported		MD5revMD5				MD5REVMD5			722c484d8b83d0852b35519e8a2d1bfa	
md5(strtoupper(sha1(strtoupper(md5('$pass')))));	not supported		MD5SHA1UCMD5UC								
Tiger Tree Hash	not supported		TTH				TTH-HEX			313439e6a1b229ac75271edb9fd5abbe1914e39d7609ced1	
md6 (128bit)	not supported		MD6							85b6e44f473c9adc11b1dda06996796e	
			MDC2								
hash('gost', $plain)	6900		GOST				GOST			e473da8002e5a1fd1e0d0ba3c22d57c86f793ec8a176c8fb3766909e8b4504e9	
hash('gost-crypto', $plain)	not supported		GOST-CRYPTO				GOST-CRYPTO			30bb97e3413a02d7d07865d499aa512eda638f51ba8771310f01faac658bea87	
			TIGER				TIGER192-3			e3ae045f333f084a0ee4acdb1f5c20c560410c7e28005a3a	
md5(strtoupper(md5(md5($plain, true))))	not supported		MD5RAWUC [1]				MD5UCMD5RAWMD5			0626585d2f0f43eab73d6e8ee652f961	
md5(lm($plain).ntlm($plain))	not supported		MD5-LMNTLM				MD5(LM(PLAIN)NTLM(PLAIN))			3bad23f2a023a7ea5d5c2e7768ef0b6a	
netscape LDAP	101		APACHE-SHA				NSLDAP			{SHA}0hr370BGrw4808OEcnka1fCBw58=	
has-160 (librhash)	not supported		HAS160				HAS-160			7a4ba60dc1f6f04a2b9b355aa36a869ab2832768	
	not supported		EDON256				EDON256			f2d94174083c3aed3ca36200bc0b3f507245d997db342c9e8d72fdf0e0a5774c	
	not supported		EDON512				EDON512			5493df4d9169725724290d00fd5bbfaed054ec9985cb02479d62bcddedbaecae34038e616d141328b4f320a784ecc36a8f9833e886d19fe594e6cd56889ea920	
	not supported		BLAKE224				BLAKE224			2891c386aa036383d32db6d8f84d4df77640a9efe7aefe909378276a	
	not supported		BLAKE256				BLAKE256			e8df4e4c683b71286132ed80f478c3191892e0769cda77f48ba5b01eb10d5291	
	not supported		BLAKE384				BLAKE384			4a3a31b1553e33e9060888d2a49d38ffb1d1c8eb72eb36408fcc26e901529cf40462f74f583787c1cc75158ea045e0f5	
	not supported		BLAKE512				BLAKE512			600c42f99706e949ea2ca2ce3cfd4316ecb01d5c8778b8c11aa56a84a48307782a6d62f16e1f7ca89dcb3934e3d6f5bd50950006d85ad0b883145c3a219e19d7	
	not supported		BMW224				BMW224			98f9a934f4aad886c23f9497432c1cd7ca2158bc3b3f4bcf1bfa175f	
	not supported		BMW256				BMW256			d5532da92f46ff110de98ee3ebd351ed9180c69ee0dc86d73ce0ac1ad2441ed4	
	not supported		BMW384				BMW384			c4f2bf8f2ba6727df2fd264868ec3e98bfcea9770c3745cc210d84e3c3407d3d2cb3a92f6d7ad3405c0d77394c24b223	
	not supported		BMW512				BMW512			59a86083bfa32bb189e30060a7f76e56398ba329b42b757465230c3f0cdc82c8d5c1c6408079d367f72604439d92f881a45194b003a1f058bbfafe340b1d003f	
	not supported		CUBE224				CUBE224			27d72edad2b8ae07882f0e7caab5f82357615bb41d8ffa4489fdfcfa	
	not supported		CUBE256				CUBE256			a9942b27335cf33290c834bff449031c1d0db5fbaf1ec9876f61f0da432bc5e4	
	not supported		CUBE384				CUBE384			91d275da5d1301e874ca6966215669d0b9651111cca533ddc42f44dbfd3b01a4915a8deb1c3fea9ea08fb6a345546b52	
	not supported		CUBE512				CUBE512			7ff2bfecd39eace46a473a4d18be0ef6f22ff392d8f1d42a8c194dafc5dc85170de874fb28e1662b7d6a6b28d85ab770757e3f7e6e66151eb87daa482d3edd9f	
	not supported		ECHO224				ECHO224			b1ddfa0b12be73749c994e248231394aaa6cf809857fb210fb16d9a2	
	not supported		ECHO256				ECHO256			eda401e6b5274940007df7194c8e11deb1fe8d48580b96c93c93119e54538894	
	not supported		ECHO384				ECHO384			647453eb02c1712d844d20f34acd28ee712b7558e2be11a67d5eecc026d9e63d703bdf00f318d957c57bdfef0f55a21f	
	not supported		ECHO512				ECHO512			485500bac177183176712667d88dc9e7ad4b3adbea93a4ae4022d78ca5a4070cdb039b1749b1f60a530525fe607c864724c1549fe535c58da8dc82e623360e66	
	not supported		FUGUE224				FUGUE224			2fdf48f5a7d2e360298c9647c1c061047af8c4466d57b2eb5c1782c1	
	not supported		FUGUE256				FUGUE256			49a6eac200a3fcf8c4eab1960cac710944d95f4410af05cd205c359c1acd47bd	
	not supported		FUGUE384				FUGUE384			8f5a1d084c257a4590667eb3820a5bd03a41216a6944c2d8799f8d631658423d87a971d14867d9a4fa53ffb7a57b764f	
	not supported		FUGUE512				FUGUE512			1cb80362b591449b7853491f05548e20584eb83f561b2dc657262ac7b02ecc150568259fd952ecb6c87603e0938373a89f8994356d0a51e28e4ef50986529e05	
	not supported		GROESTL224				GROESTL224			1b6ebe3878ee3b294f582fc82c0b47859c62a16314da9587806f3e5c	
	not supported		GROESTL256				GROESTL256			f0cd5b1e54aa3a72e023466b8ad06c5dda43a792973bc948df50d4602e8873aa	
	not supported		GROESTL384				GROESTL384			640b0bf5ccb0871e0409f450c27060044b22dec2e973f90d0795d675eef5a1556160e16add3e7c60c46d54d80b99aea9	
	not supported		GROESTL512				GROESTL512			befb4cae0b47824e83b5759c7afb7bf210d16e91e2c334adb3d5956bdb96e086a42e769d92b60ed3d461f2a27daebf050973bd1ca4324ee8a745f71dd65d4aeb	
	not supported		HAMSI224				HAMSI224			804ce029f3429c10ef85b9350d12e00bc943c9e109595afee561054e	
	not supported		HAMSI256				HAMSI256			8787e926b42fa359544a7b65b0934d9f05a8ea12c35fb89b7d0b00086a3c0e70	
	not supported		HAMSI384				HAMSI384			256ebc6fa477f43489a9032346e9c31733576a771912a3e082a4d3d3dbc35efd280310387c2da05a7f1f4b23106ac560	
	not supported		HAMSI512				HAMSI512			3f1b29ffafea309acb40e443647c64c4e9dff6b92d50ad4aeaf0953e3e04024799ed66a72e42cc65b932e3ea700568cf3aae69e46ebd7c47802aea5f4136cf92	
	not supported		JH224				JH224			65b0485586c47003fc8d67a5e2e821a8688dbce634da305cd77a550e	
	not supported		JH256				JH256			1ece79f847b8498bd0ec7bbb40318f5f87ee2836d210e6d892c01baa60c339fd	
	not supported		JH384				JH384			0eb2667e9f5b1136ecaad630946364447e1646a081290d3abaa8a7248f1e5e7e0c9b93a88d0e0e464c038132e69cfdca	
	not supported		JH512				JH512			0efb8ffef31c979020b2bde5d8aabc80f75d5a2940e174bde3556d7626999227704e233ce85b0053a35a657fd96449ef104e650b5c8c437b86ab488018139163	
	17700		KECCAK224				KECCAK224			33e333fe834451ac42ec814b40da5cd9f547d7f94d2458cb4c0a53e3	
	5000		KECCAK256				KECCAK256			6b7bc1ebe35cf833944033160b3ae7752ca0b8d1ff8c48b3a26687786e4942ab	
	17900		KECCAK384				KECCAK384			fcd1c4e4259bb65aae49b2e3d7247d35918f1ddd403d17f2775c23901432f37994d443909cb35c3afd92e446cd9ab4be	
	18000		KECCAK512				KECCAK512			3e7341a8de619184a24035a0546f0bda33445634add5aecc9887816b9e86eed4c4214bc26413a47fe3692e3e4291bb0d1a9e20ab333cbbf7b4a49ccb6d112ef6	
sha3-224($plain)	17300		SHA3-224				SHA3-224			cffda85c01c359a2a08f2bf408207c9e16660e64ac0bcbaff4b6115b	
sha3-256($plain)	17400		SHA3-256				SHA3-256			4f96e26701ef260e552c00f3d3cf06ffcff3f2616792ad01c06b7f6cba92585b	
sha3-384($plain)	17500		SHA3-384				SHA3-384			2650013dd6e61219ead77e373ca202155fee08726885f895a29ad4a5fd1a1a7fc9f9c33aa1a9fe08690aa9e8bfd934ee	
sha3-512($plain)	17600		SHA3-512				SHA3-512			14b2cb30dcb9a0e596425cf27c2e6315dfb436bbd4f9dbf234c0de2a5f94d21687a227884dc16c9f782fdc828adf850d2ba767cab7914f5cf6148bf8e521c048	
	not supported		LUFFA224				LUFFA224			274106a05113bf30487ff312da705e270d63e0e7291d585a473e236b	
	not supported		LUFFA256				LUFFA256			274106a05113bf30487ff312da705e270d63e0e7291d585a473e236bb5f41bbd	
	not supported		LUFFA384				LUFFA384			1a17426f4eb9a39221aeb0619134dffbd2428152a946b35ea1a871aef8bbe4a42761fd0f5b4cc8a603626be00f720022	
	not supported		LUFFA512				LUFFA512			09d02fc55ab5cae4387aaad8de3e35faae0a2b2a58c66ac10f9dd41f188f4b19109005d6c38666b815a290f880ee8881f9d3fa8f01bc69f4d3d08bef5d0d0aa8	
	not supported		PANAMA				PANAMA			8f8d192270e3e7f8fbbeb35b544dd0c893771628cb4163ea68bc9d815736b896	
	not supported		RADIOGATUN32				RADIOGATUN32			9ee7fdfb57e2132c6614dcfcf4084bc7	
	not supported		RADIOGATUN64				RADIOGATUN64			10a31c25db8703938e0e87e56a06984154e42f5b3e077ce46f82c71696e51653	
	not supported		not supported				SHABAL192			a7c46ea1968b4b03419d78829df983fb457027b58f219b99	
	not supported		SHABAL224				SHABAL224			905b4e54f72c13539d1231beef2c6808b02a00afa0558a15828f7256	
	not supported		SHABAL256				SHABAL256			4dad87411e79d5db7c8e3f2e0d464f6a0c5a67d8cc31f1ed8d383861a8d7a597	
	not supported		SHABAL384				SHABAL384			b07e89d2401a8001b18a6a59e0d4c31cded0666bf232e1e4c6f5da80062d8eb4edd682383213807d52e955009fd12a85	
	not supported		SHABAL512				SHABAL512			551cef65b634d0a7b2f82c382f6d72faec6e48e0b67fe59eea8f24f533815e8a00f2f60eaa2ae2be5c453c2b9cff19bcc0ba1fdf3a1f25fde0c3e52e98dbe952	
	not supported		SHAVITE224				SHAVITE224			907f4304d974ddb3c7cd26828a0cd1284640883802d8932b45f945ed	
	not supported		SHAVITE256				SHAVITE256			90311382ada03091ee1eafc71ca2943a6904dc4db9738c7af35d2fbc08a21b38	
	not supported		SHAVITE384				SHAVITE384			bfc4ee078ea647b66dd2e04c9b8c007e604b999704b756fe18fddc9ae4f5a1f872dac26efebccd85af7b1ed55eb93342	
	not supported		SHAVITE512				SHAVITE512			b2f03ed4bdb3a902349564cc3719f4f3ca4b3a080cc99483f096ffe65a60ad33d31a08d069cf073e67a6a395fe5529e1d69535b6c1f2234af62a9f83cc08d8e06	
	not supported		SIMD224				SIMD224			15c779264953088b5c06db162fb9ee510aed6a1a205c6cb020eccef6	
	not supported		SIMD256				SIMD256			2a6ab6573ca32252f35f260fb969560fc65d56344d7e94652999ae53432baac0	
	not supported		SIMD384				SIMD384			8f42b706d7c65528a8d10091e0d6acf89e290f31c69011d57c1f4239b1cbbdf29821de224363de6ddc4ee78c28f9ca51	
	not supported		SIMD512				SIMD512			5f3231ad8c81eda012f75cf5c201caf8110b234a73643d6fa3d6a9b61e26a422b088d4401260f92eb4b1ca0eab91ac2e4ea0fd1cade0866267a9102cfef01fa5	
	not supported		SKEIN224				SKEIN224			d44e5cbb8b0d35f15e65576152bf5c09c1afc5b8de3ec17ab000db47	
	not supported		SKEIN256				SKEIN256			ef6e9c07f0c2eed80f6e61c651b19f2c8d72bbb8930cef9764e3f4be9000bf73	
	not supported		SKEIN384				SKEIN384			e4de02dc709f447ce71559198797071a22c039360641943afc4ece717deb00232ef924a4cc3b7978f32b446350b4623f	
	not supported		SKEIN512				SKEIN512			ba763e9e53ef5d367a59b62c3836977b1c24fba544a4f67612b9e3d384c681ebea2782a06ef721011b0b1886f30aa69b112e7bc0e8fc66384f4e7818579227f7	
	not supported		TIGER2				TIGER2			9533622341c04caa8606602a96b7fb77b80c8e685a1587bd	
	not supported		WRL0				WRL0			c9252d8ed36dc54ac20306f11167c9fcc0fa9381c5409b6791dd98f92458a3e4904cef0ec6fafc127281149a23b705885061668e18f46201c8d3f48d27588698	
	not supported		WLR1				WLR1			cc23fd53f2506161e7342fc10d7eb7d57fff074e1811f5f2f70d96d71fd93fce34b42ee88707a88b95391a1f6f9b8c071694d46c7eb270814dd9fca9c1d82623	
md2(md5($plain))	not supported		MD2MD5				MD2MD5			1304064752dcd54c647002d9e355799c	
md2(md5($plain).$plain)	not supported		MD2MD5PASS				MD2(MD5(PLAIN)PLAIN)			b9c44061c6869a75125d4d532a08e161	
md4(md5($plain))	not supported		MD4MD5				MD4MD5			29b3b3371dd35c80a3b8507af27086d3	
md4(md5($plain).$plain)	not supported		MD4MD5PASS				MD4(MD5(PLAIN)PLAIN)			5b98c93a666df7fab0a9d8378854d003	
md5(md5($plain).$plain)	not supported		MD5MD5PASS [2]				MD5(MD5(PLAIN)PLAIN)			3e04bc91aab740a5f27931e90d445acc	
md5(md5($plain).":".$plain)	not supported		MD5MD5PASS				MD5(MD5(PLAIN)INSDPPLAIN)			4948708c2d6fe45899772049bf585fa4	
	not supported		GOSTMD5				GOSTMD5			3a93a0cd7aba8f6fc1e4bb9e42b995ee1c4f52cd037f44e13cf45e169e8c5b88	
gost(md5($plain).$plain)	not supported		GOSTMD5PASS				GOST(MD5(PLAIN)PLAIN)			8c0b5ef913cfd5f555777a9cb9aa67b38f0e9a53dcf3cd154656dad5e60292fa	
haval128_3(md5($plain))	not supported		HAV128MD5				HAVAL128-3MD5			63e20dddd1f5c667ca9c8eefac7c7c87	
haval128_3(md5($plain).$plain)	not supported		HAV128MD5PASS				HAVAL128-3(MD5(PLAIN)PLAIN)			34a8f492558c140ec2d6e07429b4e138	
haval128_4(md5($plain))	not supported		HAV128_4MD5				HAVAL128-4MD5			be86fa87d9eb050f76c751130b8c7b32	
haval128_4(md5($plain).$plain)	not supported		HAV128_4MD5PASS				HAVAL128-4(MD5(PLAIN)PLAIN)			9657d87b87015b79c4083f45039c3965	
haval128_5(md5($plain))	not supported		HAV128_5MD5				HAVAL128-5MD5			3bacb682d11eb9793ae300c4608e1579	
haval128_5(md5($plain).$plain)	not supported		HAV128_5MD5PASS				HAVAL128-5(MD5(PLAIN)PLAIN)			22b12aac3f68ddf453929048082e1b63	
haval160_3(md5($plain))	not supported		HAV160_3MD5				HAVAL160-3MD5			7127c5646635fa18cb6435af1062fcf8ad3e9948	
haval160_3(md5($plain).$plain)	not supported		HAV160_3MD5PASS				HAVAL160-3(MD5(PLAIN)PLAIN)			8172dd83997f1957767ecda4c5327b2a6852744	
haval160_4(md5($plain))	not supported		HAV160_4MD5				HAVAL160-4MD5			78935fce26e0a36786c010866364777083029dbd	
haval160_4(md5($plain).$plain)	not supported		HAV160_4MD5PASS				HAVAL160-4(MD5(PLAIN)PLAIN)			2c751866ae65a54c58bf1adf3c58c8b111d89c61	
haval160_5(md5($plain))	not supported		HAV160_5MD5				HAVAL160-5MD5			2989b315775535a9823069bd26d3bd1efd8768e8	
haval160_5(md5($plain).$plain)	not supported		HAV160_5MD5PASS				HAVAL160-5(MD5(PLAIN)PLAIN)			3080cabf5c97c02df1119ced0227184f37d638c7	
haval192_3(md5($plain))	not supported		HAV192_3MD5				HAVAL192-3MD5			7d528d16bd9e4f2ff14696bfdc0275d2ba26af76661386a1	
haval192_3(md5($plain).$plain)	not supported		HAV192_3MD5PASS				HAVAL192-3(MD5(PLAIN)PLAIN)			2b8f7877605dd8348a143bd26e0a333b7fb907d19e45fd50	
haval192_4(md5($plain))	not supported		HAV192_4MD5				HAVAL192-4MD5			bbb233925aa23fb7147de80249f853e1fa1c0f80c9d0f91a	
haval192_4(md5($plain).$plain)	not supported		HAV192_4MD5PASS				HAVAL192-4(MD5(PLAIN)PLAIN)			4daf125dcc22b884318a92da9490bd9c032e5f51df6039f1	
haval192_5(md5($plain))	not supported		HAV192_5MD5				HAVAL192-5MD5			d7514a67e3ea0a1b398ef76227a4c21a92ab93d3d3b87d03	
haval192_5(md5($plain).$plain)	not supported		HAV192_5MD5PASS				HAVAL192-5(MD5(PLAIN)PLAIN)			b457ff39af7c12887df473528db9c7e34d3c4edb794598ab	
haval224_3(md5($plain))	not supported		HAV224_3MD5				HAVAL224-3MD5			915271a51a43bb808ff431090ed2ba866f03ffdf3f60ff525c8e7116	
haval224_3(md5($plain).$plain)	not supported		HAV224_3MD5PASS				HAVAL224-3(MD5(PLAIN)PLAIN)			2a8cea45b72a2deb56a35e9201ada62f8f2ea88e34d85590e9fc7983	
haval224_4(md5($plain))	not supported		HAV224_4MD5				HAVAL224-4MD5			af044154b313a74b0d030e97351d1cfe554abb03e9770f84475c6726	
haval224_4(md5($plain).$plain)	not supported		HAV224_4MD5PASS				HAVAL224-4(MD5(PLAIN)PLAIN)			bf35ae4138a35b5c6cb3fb210affd27e7bc31983017e20c06237b525	
haval224_5(md5($plain))	not supported		HAV224_5MD5				HAVAL224-5MD5			e5fcbdb8c06a7fa207b535db94f0a9eb968e896666eb7e1091c7a0fc	
haval224_5(md5($plain).$plain)	not supported		HAV224_5MD5PASS				HAVAL224-5(MD5(PLAIN)PLAIN)			e6af090b39cbb4a59b874d159bf01a2d8e9c30d2f9d1e2dd74cc74da	
haval256_3(md5($plain))	not supported		HAV256MD5				HAVAL256-3MD5			33fd75e75897667c38fb5e5b69be8a77f984e87f8197e4f27f8587b30a77346b	
haval256_3(md5($plain).$plain)	not supported		HAV256MD5PASS				HAVAL256-3(MD5(PLAIN)PLAIN)			16423689caa3dcc9f2e085dd4b22fd3b37c9dcaa44463500d406274155d563bd	
haval256_4(md5($plain))	not supported		HAV256_4MD5				HAVAL256-4MD5			7e6db9c127bc9867d1d4c80428d0d40483799730c584515f2ec9425e28d8a6a1	
haval256_4(md5($plain).$plain)	not supported		HAV256_4MD5PASS				HAVAL256-4(MD5(PLAIN)PLAIN)			7328be38df03eb34070d3c7be2c743d9d34adc6c0f59245f06401faa22b80e7b	
haval256_5(md5($plain))	not supported		HAV256_5MD5				HAVAL256-5MD5			73a3b3431fe4108aa905edf95377f85011d9c9299e41dba4e8ce2893c76e95ff	
haval256_5(md5($plain).$plain)	not supported		HAV256_5MD5PASS				HAVAL256-5(MD5(PLAIN)PLAIN)			4f87a1aa354c55a708609c30de71a097ae581b8e6cd9c4c115a447a77c75c76c	
ripemd128(md5($plain))	not supported		RMD128MD5				RIPEMD128MD5			c1937d511306514f7635f6e12630f1f0	
ripemd128(md5($plain).$plain)	not supported		RMD128MD5PASS				RIPEMD128(MD5(PLAIN)PLAIN)			bbe0d10b0dc47fa6d89ac1e1f5d949b6	
ripemd160(md5($plain))	not supported		RMD160MD5				RIPEMD160MD5			c4ab50d4b2bfcca838f81db1f561bd03de683888	
ripemd160(md5($plain).$plain)	not supported		RMD160MD5PASS				RIPEMD160(MD5(PLAIN)PLAIN)			8bdc4afbc5a0799d7375d49ce151c30c55d52bb6	
sha1(md5($plain).$plain)	not supported		SHA1MD5PASS				SHA1(MD5(PLAIN)PLAIN)			1d567898a9c98e6bc0912258f6cbfe3c424e1375	
sha224(md5($plain))	not supported		SHA224MD5				SHA224MD5			0bb52cf2ad59bfe8a348bee6f1195d8efb65bb5ef7f92bae77828682	
sha224(md5($plain).$plain)	not supported		SHA224MD5PASS				SHA224(MD5(PLAIN)PLAIN)			0b9d448a56abb72960fe2280a967f7caa58e1403df9a398aa8ab6964	
sha256(md5($plain))	20800		SHA256MD5				SHA256MD5			677f5063c2f29173f2ad67c27cc3ecc26fed3ac87a80422ca4b444cef82bb38e	
sha256(md5($plain).$plain)	not supported		SHA256MD5PASS				SHA256(MD5(PLAIN)PLAIN)			7d909f45981a0d95641d02a0186a03d88e6a2abb74899f13259b8cdd72f65194	
sha384(md5($plain))	not supported		SHA384MD5				SHA384MD5			58bfd448ffb4d87c532761bffc736010f604cc21357399cce281bd3f5c0a519eabe994816f4a4e89bfaad968f92ab328	
sha384(md5($plain).$plain)	not supported		SHA384MD5PASS				SHA384(MD5(PLAIN)PLAIN)			4ac9a579fdbfbe03ee702108261d76b467dda1329e8ec72ccf4d8c472c66ab399012b2a5c4530dbcfb7268a126ca4508	
sha512(md5($plain))	not supported		SHA512MD5				SHA512MD5			abeb2bd44be42cad6adf5ede57d4c34e869d55cfd53dbc58e407e879f75e9dd23d58027b0322209e887d3717cdadfc1564345edfd58a56f1521309f07e837bef	
sha512(md5($plain).$plain)	not supported		SHA512MD5PASS				SHA512(MD5(PLAIN)PLAIN)			7be4cea6c365b23a2657c827eec3be3230fc09a2d91e7a844e8d7481b4db07c9a4ed54d69443bb14f013ee2a9c1c4c96c6e294072de750d2514572fcd8556a45	
tiger128_3(md5($plain))	not supported		TIGERMD5				TIGER128-3MD5			1be29e70dfc8ec16e2c14ffedb50c7d431313c8bbb160114	
tiger128_3(md5($plain).$plain)	not supported		TIGERMD5PASS				TIGER128-3(MD5(PLAIN)PLAIN)			4f71c6d63c3e9be1762f7b5b391595d1d3b40b54a5f024a0	
whirlpool(md5($plain))	not supported		WRLMD5				WRLMD5			7aa861c2a6214b24f1d4485df585669e9d262e310b6113779b4be04a536f3174b0972f5c275de64f47317305cec57b68374ab1798e5bcde13cca78bf67ea1bc7	
whirlpool(md5($plain).$plain)	not supported		WRLMD5PASS				WRL(MD5(PLAIN)PLAIN)			c74449efef89c01a42f690004307fc53852ec1fdddfcfbeb40a788e434b3604a9abdd64142252d3892d14fbc4bdb226ef9aeb89fbeeb0b181ab8e7cb9714abb2	
snefru128(md5($plain))	not supported		SNE128MD5				not supported			c55ae184500b9f1ed9cea6d3472a18a5	
snefru128(md5($plain).$plain)	not supported		SNE128MD5PASS				not supported			09fd10f5d45b6a655f5f7c8f4dca8cb2	
snefru256(md5($plain))	not supported		SNE256MD5				SNEFRU256MD5			4302206bc51d2b87a18a6ed0bc090e32c94d4f16140b021c3c19ee0ee33cd6cb	
snefru256(md5($plain).$plain)	not supported		SNE256MD5PASS				SNEFRU256(MD5(PLAIN)PLAIN)			f6ca8f577637d79d8ae1d4a0e2b7fd7cd338d4c8ae0f6a4a32884d94c60e9621	
sha1($plain.sha1($plain))	not supported		SHA1PASSSHA1				SHA1(PLAINSHA1(PLAIN))			03525d018abf875714a3828b31ef4f0ecaa7b8d6	
md5(md5($salt.$plain).":".$salt)	not supported		MD5HEXSALT [3]				MD5(MD5(SALTPLAIN)INSDPSALT)			e97fcdf8ebe91bdeffee47b2db2aa6d8:ff	
md5(md5($salt.$plain).$salt)	not supported		MD5HEXSALT [4]				MD5(MD5(SALTPLAIN)SALT)			fa711dcbeaa6279ce5c8c974bd0b0822:ff	
md5(md5($salt.$plain).":".$salt.":")	not supported		MD5HEXSALT [5]				MD5(MD5(SALTPLAIN)INSDPSALTINSDP)			865ca7c85295be0fc1c987d552e4329f:ff	
sha1(md5($salt.$plain).":".$salt)	not supported		SHA1HEXSALT [6]				SHA1(MD5(SALTPLAIN)INSDPSALT)			f0f324cb227725f3871ef41d43fdc1616829a7d9:ff	
sha1(md5($salt.$plain).$salt)	not supported		SHA1HEXSALT [7]				SHA1(MD5(SALTPLAIN)SALT)			0c8c67d980d9ce9cc13b0ef48a58175f1871dc3f:ff	
sha1(md5($salt.$plain).":".$salt.":")	not supported		SHA1HEXSALT [8]				SHA1(MD5(SALTPLAIN)INSDPSALTINSDP)			a389654aaff95080e81a0cc468a46721fd58fb69:ff	
sha256(md5($salt.$plain).":".$salt)	not supported		SHA256HEXSALT [9]				SHA256(MD5(SALTPLAIN)INSDPSALT)			3e4835ecd04f2290041656deff7923abc07f55e19cd5b6bc2c6eec0a7f4dfc4a:ff	
sha256(md5($salt.$plain).$salt)	not supported		SHA256HEXSALT [10]				SHA256(MD5(SALTPLAIN)SALT)			7d103c6361bb8141387bb32ede14c24eb9f72062fdd5188aadb0f69960594038:ff	
sha256(md5($salt.$plain).":".$salt.":")	not supported		SHA256HEXSALT [11]				SHA256(MD5(SALTPLAIN)INSDPSALTINSDP)			e0c15595ec1e2153c76c013df2fd2d4c00021121fe4543659091ac67ac854723:ff	
gost(md5($salt.$plain).":".$salt)	not supported		GOSTHEXSALT [12]				GOST(MD5(SALTPLAIN)INSDPSALT)			44c1e33f46ef984909683c0932bc2a13d47be752a24980a2e20d786f2fa3ab6a:ff	
gost(md5($salt.$plain).$salt)	not supported		GOSTHEXSALT [13]				GOST(MD5(SALTPLAIN)SALT)			3658eea2e621bd54772207ab226795b114758d4317692f782f7b808ddec6a234:ff	
gost(md5($salt.$plain).":".$salt.":")	not supported		GOSTHEXSALT [14]				GOST(MD5(SALTPLAIN)INSDPSALTINSDP)			a3ad962682d0a05b070bd021df196d2538101ccd92c620ac94d9647da579c639:ff	
haval128_3(md5($salt.$plain).":".$salt)	not supported		HAV128HEXSALT [15]				HAVAL128-3(MD5(SALTPLAIN)INSDPSALT)			081d80d288b6d5f6f8a2eb796f3504f1:ff	
haval128_3(md5($salt.$plain).$salt)	not supported		HAV128HEXSALT [16]				HAVAL128-3(MD5(SALTPLAIN)SALT)			c17bf487649611cf1f4deb05e807c7d7:ff	
haval128_3(md5($salt.$plain).":".$salt.":")	not supported		HAV128HEXSALT [17]				HAVAL128-3(MD5(SALTPLAIN)INSDPSALTINSDP)			287d170e2e4ffb70dd547427f3e6bdfb:ff	
md5(sha1(md5($plain)))	not supported		MD5SHA1MD5		dynamic_1020		MD5SHA1MD5			8f86f37af34709b6d0336d7a7b601a90	
md5(sha1(md5(sha1($plain))))	not supported		MD5SHA1MD5SHA1				(MD5SHA1)X2			e4bf76571fdaf62f2def1b4341b177d9	
md5(sha1(md5(sha1(sha1($plain)))))	not supported		MD5SHA1MD5SHA1SHA1				(MD5SHA1)X2SHA1			e2594e381256321761ef9cae26c78d7e	
sha1(md5(sha1($plain)))	not supported		SHA1MD5SHA1				SHA1MD5SHA1			1ecf9aa62f2b7a51e9892e23d773b07c154cbbec	
sha1(md5(sha1(md5($plain))))	not supported		SHA1MD5SHA1MD5				(SHA1MD5)X2			dd1b04892997a6e3707f0f854cb3719ba51c27e7	
md5(haval160_3($plain))	not supported		MD5HAV160_3				MD5HAVAL160-3			b0f60d5af5fdca34aa72ad6c55c830ec	
md5(sha1(haval160_4($plain)))	not supported		MD5SHA1HAV160_4				MD5SHA1HAVAL160-4			b41d25fdced2bc6462a3c82d8853d1af	
md5(sha1(md5(sha1(md5($plain)))))	not supported		MD5SHA1MD5SHA1MD5				(MD5SHA1)X2MD5			9fdcebf198d3be26f7178878339230af	
md5(ripemd160($plain))	not supported		MD5RMD160				MD5RIPEMD160			a71d121fe12d7a0ca4974bf5a9065d1d	
md5(sha1(sha256($plain)))	not supported		MD5SHA1SHA256				MD5SHA1SHA256			df032f2b447b08dee38c685cbaae90dc	
sha256(sha512($plain))	not supported		SHA256SHA512				SHA256SHA512			6015961a043df0e7acd8c3f1a27f133e85f097dcd24dccab69c460d2a27fc724	
md5(whirlpool($plain))	not supported		MD5WRL				MD5WRL			399f6a0d962eaa66ca0caf143589f9f8	
md5(sha1(sha1($plain, true))) [18]	not supported		MD5SHA1SHA1RAW [19]				MD5SHA1RAWSHA1			b2b0326bf2ba956f868387278f7480b1	
md5($plain.md5($plain))	not supported		MD5PASSMD5 [20]				MD5(PLAINMD5(PLAIN))			4c8696c5de62e8c3b256a14a6fbeee1e	
md5($plain.":".md5($plain))	not supported		MD5PASSMD5 [21]				MD5(PLAININSDPMD5(PLAIN))			2ce924471b6b4714ff68502ace2853c8	
md5(md5($plain).md5($plain))	not supported		MD5-DBL-PASS [22]				MD5(MD5(PLAIN)MD5X2(PLAIN))			b32c378845e64ed9faf4f97dcc4b0eb5	
md5(md5($plain).":".md5($plain))	not supported		MD5-DBL-PASS [23]				MD5(MD5(PLAIN)INSDPMD5X2(PLAIN))			760a4c50ea64f714dae34238ef39a21d	
md5(sha1(md5(sha1(md5($plain)))))	not supported		SHA1MD5SHA1MD5SHA1MD5				(SHA1MD5)X3			aef7f03be27763d427e83c1302a11bb35b2d13d1	
md5("*".mysql5($plain))	not supported		MD5SQL5				MD5MYSQL5TOT			c4c2139ad1b8e5de586e3e943c9da683	
sha1("*".mysql5($plain))	not supported		SHA1SQL5				SHA1MYSQL5TOT			d5a61a408f8bfd58bfd8ab00c1494f2a159550e6	
md5(strtoupper(md5(md5($plain))))	not supported		MD5MD5UCMD5				MD5UCMD5X2			488878b3a06cc6dcbd14dd7f710d2b25	
hmac("md2", $plain, $salt)	not supported		HMAC-MD2				not supported [24]			095234a583b15cce261a42068a1ea8b4:abc123	
hmac("md4", $plain, $salt)	not supported		HMAC-MD4				not supported			91a8fdfb048e64da37c09df979bb6c19:abc123	
hmac("ripemd128", $plain, $salt)	not supported		HMAC-RMD128				not supported			5da94f442282d3d063fc35a6c482f495:abc123	
hmac("ripemd160", $plain, $salt)	not supported		HMAC-RMD160				not supported			ed4cb7ad83efb24dab418984d2000afb9aedf48a:abc123	
hmac("ripemd256", $plain, $salt)	not supported		HMAC-RMD256				not supported			1b82fbcd7acbfc0e5ec31bf0934c8d485ff55493e6f6c9cae6426339f53531a2d:abc123	
hmac("ripemd320", $plain, $salt)	not supported		HMAC-RMD320				not supported			da15fc208f4adc6165d1132019760e7de20c29a44166916bd0a5d4a6b1eb1dcf6bf051446cd130bd:abc123	
hmac("md5", $plain, $salt)	60 [25]		HMAC-MD5				not supported			78c07ffc6675de7fef452e2748c5af2a:abc123	
hmac("sha1", $plain, $salt)	160 [26]		HMAC-SHA1				not supported			7dae08ba6c9d641f6892fc38aaf2d9120a7011df:abc123	
hmac("sha224", $plain, $salt)	not supported		HMAC-SHA224				not supported			7b8ab0077bda063c8137e70b546d8f2a2d578b6bbd77715495144345:abc123	
hmac("sha256", $plain, $salt)	not supported		HMAC-SHA256				not supported			5dbecdc4e07c28e6b3090947e76657f558e81ee89fb53edef8db6b98316722d1:abc123	
hmac("sha512", $plain, $salt)	not supported		HMAC-SHA512				not supported			ebb42db4a8167639903f5ed6b1e501bdc9c9eada1936464b2f112439faf4d8439a7da15d2428d81af2144f717ceb09504b5ac94de2d71ef630136673833374df:abc123	
hmac("haval128,3", $plain, $salt)	not supported		HMAC-HAV128				not supported			d952f0e93c27e59176b5580efd1af60e:abc123	
hmac("haval160,3", $plain, $salt)	not supported		HMAC-HAV160				not supported			9e21d4c57fad80b1a1f6f847528ee9cdc3b451f0:abc123	
hmac("haval192,3", $plain, $salt)	not supported		HMAC-HAV192				not supported			07d2a5be9a06304be2cc65c0d537426d5312365240735d7a:abc123	
hmac("haval224,3", $plain, $salt)	not supported		HMAC-HAV224				not supported			2c06f6daffe271c13840e9102306ec82b00caddde255c3419366b4dd:abc123	
hmac("haval256,3", $plain, $salt)	not supported		HMAC-HAV256				not supported			aeade438529cd63584d81567e064001fcccd90c69c6ce165a8e114083147d30d:abc123	
hmac("tiger128,3", $plain, $salt)	not supported		HMAC-TIGER128				not supported			fdcb6eb1a77d8ff88708d93f34f4dade:abc123	
hmac("tiger160,3", $plain, $salt)	not supported		HMAC-TIGER160				not supported			b6913518b8cc355c52431fd870e34f87f473e7f7:abc123	
hmac("tiger192,3", $plain, $salt)	not supported		HMAC-TIGER192				not supported			223ed3909f4199dfe1d36999c8917936c385e459e7f0e970:abc123	
hmac("gost", $plain, $salt)	not supported		HMAC-GOST				not supported			549eb7acac0e1a39218a0f80bd816e733dffb5e456147396930d2a0e9b79ed54:abc123	
hmac("whirlpool", $plain, $salt)	not supported		HMAC-WRL				not supported			7cae693e6919f283227fbfc5dcd24e1094a807f309b9cdca08fe3097b7eb3e97:abc123	
hmac("snefru128", $plain, $salt)	not supported		HMAC-SNE128				not supported			778d254eebc6e782d3f7f55f0bb1a8f7:abc123	
hmac("snefru256", $plain, $salt)	not supported		HMAC-SNE256				not supported			9eae5c2b34ac039b2543cf4c187ac2f207cf6b5664a4e83b816f60dffa2706d3:abc123	
ripemd128(md5(md5($plain)))	not supported		RMD128MD5MD5				RIPEMD128MD5X2			7f10aa7adcb8857879ba6a49a393991c	
md5(base64_encode($plain))	not supported		MD5BASE64				MD5BASE64			1067fc77620ebeba57f0c0273ce05a92	
md5(base64_encode(md5($plain)))	not supported		MD5BASE64MD5				MD5BASE64MD5			b701256345ca4b455fd5b8a22299237b	
md5(sha1(base64_encode($plain)))	not supported		MD5SHA1BASE64				MD5SHA1BASE64			88cf235710eeebb46e92093a2e66a1ed	
md5(sha1(md5(base64_encode($plain))))	not supported		MD5SHA1MD5BASE64				MD5SHA1MD5BASE64			b20fd1d90ea53d769fd1e6fd4a3e88ec	
sha1(base64_encode($plain))	not supported		SHA1BASE64				SHA1BASE64			a07445b1a23792a88c177ae6e315dfadac81bdde	
md5(base64_encode(md5($plain, true)))	not supported		MD5BASE64MD5RAW [27]				MD5BASE64RAWMD5			bf0ce280c48de2362bf5f8e921b545e6	
md5(substr(base64_encode(md5($plain, true)), 0, -2))	not supported		MD5BASE64MD5RAW [28]				MD5CUT0-22BASE64RAWMD5			295a3f40be632e3a77f92fd0e2dc46d9	
md5(base64_encode(sha1($plain, true)))	not supported		MD5BASE64SHA1RAW				MD5BASE64RAWSHA1			3e27c2c294596b5bf491949403d57cf7	
sha1(base64_encode(md5($plain, true)))	not supported		SHA1BASE64MD5RAW				SHA1BASE64RAWMD5			61491661bb74130c3c0c070e28b28deb1ad15deb	
sha1(base64_encode(sha1($plain, true)))	not supported		SHA1BASE64SHA1RAW				SHA1BASE64RAWSHA1			6690f75d5c8690aa968bac5951e84a54f77bb3e5	
md5(base64_encode(sha1(md5($plain), true)))	not supported		MD5BASE64SHA1RAWMD5				MD5BASE64RAWSHA1MD5			afae203c29569bcfc84286bb29a480f1	
md5(base64_encode(md5(sha1($plain), true)))	not supported		MD5BASE64MD5RAWSHA1 [29]				MD5BASE64RAWMD5SHA1			9ed6aa9137d08833103ca880ada15a40	
md5(substr(base64_encode(md5(sha1($plain), true)), 0, -2))	not supported		MD5BASE64MD5RAWSHA1 [30]				MD5CUT0-22BASE64RAWMD5SHA1			1437e6e13d7bb0cd59e1a52db855cce4	
md5(base64_encode(md5(md5($plain), true)))	not supported		MD5BASE64MD5RAWMD5 [31]				MD5BASE64RAWMD5X2			bf69328d466cdfc0da6b852d643937ad	
md5(substr(base64_encode(md5(md5($plain), true)), 0, -2))	not supported		MD5BASE64MD5RAWMD5 [32]				MD5CUT0-22BASE64RAWMD5X2			dcf5f5226be78c2a212535a0f2a26e8e	
md5(base64_encode(md5(md5(md5($plain)), true)))	not supported		MD5BASE64MD5RAWMD5MD5 [33]				MD5BASE64RAWMD5X3			70e438945a3dbabba996a7b1e239fcbd	
md5(substr(base64_encode(md5(md5(md5($plain)), true)), 0, -2))	not supported		MD5BASE64MD5RAWMD5MD5 [34]				MD5CUT0-22BASE64RAWMD5X3			0b61ef26868378c4003467c60532be7d	
md5(base64_encode(sha1(base64_encode(sha1($plain, true)), true)))	not supported		MD5BASE64SHA1RAWBASE64SHA1RAW				MD5BASE64RAWSHA1BASE64RAWSHA1			b97bfacce3471da3d76be1be684317ac	
md5(strtoupper(sha1(md5($plain))))	not supported		MD5SHA1UCMD5				MD5UCSHA1MD5			7475f06701bc7b184ba3ab96faf4eb9c	
sha1(substr(sha1($plain), 0, 32))	not supported		SHA1SHA1u32				SHA1CUT0-32SHA1			f0dbbcc3a598b3c57f259c0cb01aefc481f48b32	
md5(substr(sha1($plain), 0, 32))	not supported		MD5SHA1u32				MD5CUT0-32SHA1			403335e200cf12080dbf5d88e537fb85	
sha256(sha1($plain))	not supported		SHA256SHA1				SHA256SHA1			e239802419c530d36ce60dc4c6a6600f7adf11a55619579c524802f0994ec4a3	

Algorithm	Hashcat mode	Hashcat-legacy	MDXfind algo	MDXfind extra_params	John CPU	John GPU	hashes.org algo	hashes.org comment	class	Example Hash (plain: rosetta, or as specified)	Notes
md5(base64_encode(strrev(md5($plain))))	not supported		MD5BASE64revMD5				MD5BASE64REVMD5			18dee10335f04f0f4771f99abdb66be1	
md5(strrev(md5(md5($plain))))	not supported		MD5revMD5MD5				MD5REVMD5X2			822a3cf24fbc73f7fab79e6aa8ce0c4d	
md5(base64_encode(md5(md5($plain))))	not supported		MD5BASE64MD5MD5				MD5BASE64MD5X2			e01456dca63c2887e7d7b80d19dcec94	
md5(strtoupper(sha1(sha1($plain, true))))	not supported		MD5SQL5-40				MD5UCSHA1RAWSHA1			11e13b93582044728739e84d6c47946e	
sha1(strtoupper(sha1(sha1($plain, true))))	not supported		SHA1SQL5-40				SHA1UCSHA1RAWSHA1			797ada9d4ab559ff0cbc02f84f3dbe6d9f409e10	
md5(strrev(sha1($plain)))	not supported		MD5revSHA1				MD5REVSHA1			b9523d07d8c8188cb8e2054d7230cd3c	
md5($userid.md5($plain))	not supported		MD5USERIDMD5				MD5(SALTMD5(PLAIN)) [35]			80f27f91fbec4c2fd50aed9f4f9d8a92:abc123	
md5($userid.md5(md5($plain)))	not supported		MD5USERIDMD5MD5				MD5(SALTMD5X2(PLAIN)) [36]			67e8cfab18097beae1651e156c74116b:abc123	
md5($user."\0".$plain)	not supported		MD5USERnulPASS				MD5(SALTNULLPLAIN)			a6e227ec1d4f85a762fe0ddc98d5295f:abc123	
md5(radmin2($plain))	not supported		MD5RADMIN2				MD5RADMIN2			7eba7b75a218b2ec58f2aac45576d58f	
md5(radmin2(sha1($plain)))	not supported		MD5RADMIN2SHA1				MD5RADMIN2SHA1			ae4de9f65cacdfe8aa7897566a5d1a24	
radmin2(md5($plain))	not supported		RADMIN2MD5				RADMIN2MD5			d8853ecfc2338131c5a35f2b4274ac68	
radmin2(md5(md5($plain)))	not supported		RADMIN2MD5MD5				RADMIN2MD5X2			f5cb4a22806a9c4fb3f5bbc63814dda8	
radmin2(strtoupper(md5($plain)))	not supported		RADMIN2MD5UC				RADMIN2UCMD5			9106bc1a4066c88b665973790c8c2428	
radmin2(md5(sha1($plain)))	not supported		RADMIN2MD5SHA1				RADMIN2MD5SHA1			32d2b6e4198c87ef1572da6813f430d4	
radmin2(sha1($plain))	not supported		RADMIN2SHA1				RADMIN2SHA1			a23a42145254b51d207c6a64642065da	
radmin2(strtoupper(sha1(sha1($plain, true))))	not supported		RADMIN2SQL5-40				RADMIN2UCSHA1RAWSHA1			140de4a4eb002aedb3143999a0397b8d	
radmin2(base64_encode($plain))	not supported		RADMIN2BASE64				RADMIN2BASE64			5f6dcd23fbd0046bee6620b4ec662921	
radmin2(sha1(md5($plain)))	not supported		RADMIN2SHA1MD5				RADMIN2SHA1MD5			1f639105cccd19c0052d2f02ce7f7fe	
radmin2(mysql3($plain))	not supported		RADMIN2SQL3				RADMIN2MYSQL3			2802ea620989ed0097fdcc7b4d6d8748	
radmin2(md5(md5(md5($plain))))	not supported		RADMIN2MD5MD5MD5				RADMIN2MD5X3			37531a8318f80242969a51b137f926c2	
md5(radmin2(md5($plain)))	not supported		MD5RADMIN2MD5				MD5RADMIN2MD5			cf8ea9998cc6204f39aeb402fba64938	
md5($salt.md5($plain))	not supported		MD51SALTMD5 [37]				MD5(SALTMD5(PLAIN))			1b60e99da6d88e99fc7b1f0456b692e6:z	
md5($salt.$salt.md5($plain))	not supported		MD51SALTMD5 [38]				MD5(SALTSALTMD5(PLAIN))			d36d11ee427b93bec89d10139e220a7d:z	
md5($salt.md5($plain).$salt)	not supported		MD51SALTMD5 [39]				MD5(SALTMD5(PLAIN)SALT)			b847aff2eb508dd334328079011f6eb0:z	
md5(md5($plain).$salt.$salt)	not supported		MD51SALTMD5 [40]				MD5(MD5(PLAIN)SALTSALT)			c25d767eb942f86f52541fe50b480994:z	
md5(md5($plain).$salt)	not supported		MD51SALTMD5 [41]				MD5(MD5(PLAIN)SALT)			c90ea42a1cb92a2f6f1c90c95ca27f3c:z	
sha1(radmin2($plain))	not supported		SHA1RADMIN2				SHA1RADMIN2			fddda71bb52283340b2c3841d5237350c988d72d	
sha1(radmin2(md5($plain)))	not supported		SHA1RADMIN2MD5				SHA1RADMIN2MD5			c7e22a7a0fd83c0e1a11f4a3a2e70ec119df9b76	
sha1(radmin2(base64_encode($plain)))	not supported		SHA1RADMIN2BASE64				SHA1RADMIN2BASE64			ac4fe154471c13ec576daecab93e93e7ed748cfd	
md5($salt.md5(md5($salt.$plain).$salt).$salt)	not supported		MD5-MULTISALT				MD5(SALTMD5(MD5(SALTPLAIN)SALT)SALT)			1318f15bdd865413ef892880fbc6052e:abc123	
md5(substr($salt,0,1).md5($plain).substr($salt,1,1))	not supported		MD52SALTMD5 [42]				MD5(CUT0-1(SALT)MD5(PLAIN)CUT1-1(SALT))			419c45212b0c26be32d581c0ed9e6ba0:yy	
md5($salt.md5($plain))	not supported		MD52SALTMD5 [43]				MD5(SALTMD5(PLAIN))			fa5a20ee6b1ce38383fe7ec168c53145:yy	
md5(md5($plain).$salt)	not supported		MD52SALTMD5 [44]				MD5(MD5(PLAIN)SALT)			b2c1d7975b2f58d1bf3d769134469a11:yy	
md5($salt.strtoupper(md5($plain)))	not supported		MD51SALTMD5UC [45]				MD5(SALTUCMD5(PLAIN))			9aaefb9ad08d935a8d73a409d6560dc7:z	
md5(strtoupper(md5($plain)).$salt)	not supported		MD51SALTMD5UC [46]				MD5(UC(MD5(PLAIN))SALT)			d04c59886fa0e5e2fa7cbd565647b36d:z	
md5($salt.strtoupper(md5($plain)).$salt)	not supported		MD51SALTMD5UC [47]				MD5(SALTUC(MD5(PLAIN))SALT)			1623bb30757dc480727578b36f23b931:z	
md5($salt.$salt.strtoupper(md5($plain)))	not supported		MD51SALTMD5UC [48]				MD5(SALTSALTUCMD5(PLAIN))			5669f29dc270dd204f2de0fc36e78faa:z	
md5(strtoupper(md5($plain)).$salt.$salt)	not supported		MD51SALTMD5UC [49]				MD5(UC(MD5(PLAIN))SALTSALT)			7812a39b97f89fd967afff4ffe14ffc8:z	
md5($salt.md5(md5($plain)))	not supported		MD51SALTMD5MD5 [50]				MD5(SALTMD5(MD5(PLAIN)))			d1eabd7a3af0c59b35d3a19a99b6188c:z	
md5(md5(md5($plain)).$salt)	not supported		MD51SALTMD5MD5 [51]				MD5(MD5(MD5(PLAIN))SALT)			cd1b2ecf2454db86a5f6af541166a305:z	
md5($salt.md5(md5($plain)).$salt)	not supported		MD51SALTMD5MD5 [52]				MD5(SALTMD5(MD5(PLAIN))SALT)			5847720465b843ec63e7421895e1179b:z	
md5($salt.$salt.md5(md5($plain)))	not supported		MD51SALTMD5MD5 [53]				MD5(SALTSALTMD5(MD5(PLAIN)))			13cf2b2c412cb9b768d06bf362cdff22:z	
md5(md5(md5($plain)).$salt.$salt)	not supported		MD51SALTMD5MD5 [54]				MD5(MD5(MD5(PLAIN))SALTSALT)			ddbc976e417cfcf89ab95012b833f447:z	
md5(md5($plain).$salt)	not supported		MD5MD5USER [55]				MD5(MD5(PLAIN)SALT)			05b56c69b512a1c641fc59d1070df60b:abc123	
md5(md5($plain).":".$salt)	not supported		MD5MD5USER [56]				MD5(MD5(PLAIN)INSDPSALT)			d4f7dec5b98ac42336b1c9e56f2e5ca8:abc123	
sha1(md5(md5($plain)))	18500		SHA1MD5MD5				SHA1MD5X2			38b10490b54283ec6a45a5f0dc27529b84ed2588	
sha1(sha1(md5($plain),true))	not supported		SHA1SHA1RAWMD5 [57]				SHA1RAWSHA1MD5			d6dce2c855edf3c26553d654c85ece25522371b5	
sha1(md5(md5(md5($plain))))	not supported		SHA1MD5MD5MD5				SHA1MD5X3			c4a4c871d7d4670b4ccebcecd502c5cff9f34c6a	
sha1(md5(md5(sha1(md5($plain)))))	not supported		SHA1MD5MD5SHA1MD5				SHA1MD5X2SHA1MD5			e22e345abd858b29c82943f6b8422438909b0981	
sha1(md5(md5(sha1($plain))))	not supported		SHA1MD5MD5SHA1				SHA1MD5X2SHA1			2282b288e9a3206f64dad578d12c21dd143e3ece	
sha1(md5(md5(md5(sha1($plain)))))	not supported		SHA1MD5MD5MD5SHA1				SHA1MD5X3SHA1			a2ceeff7cfe0e09b92af8cfffd687cc9c7fab013	
sha1(md5(md5(md5(md5($plain)))))	not supported		SHA1MD5MD5MD5MD5				SHA1MD5X4			a489e335473a84a0863f6a90dba467b6421b9301	
sha1(md5(md5(md5(md5(md5($plain))))))	not supported		SHA1MD5MD5MD5MD5MD5				SHA1MD5X5			1736bee0d830bc0b3d2e674a6311610640046b27	
sha1(sha1(md5(md5($plain)),true))	not supported		SHA1SHA1RAWMD5MD5 [58]				SHA1RAWSHA1MD5X2			584d8347cdcb176f1ebb10d0f956483a8fe8c51b	
sha1(sha1(md5(md5(md5($plain))),true))	not supported		SHA1SHA1RAWMD5MD5MD5 [59]				SHA1RAWSHA1MD5X3			1298ff735c6d06269d880ace083af60866a88e08	
sha1(md5($salt.md5($plain)))	not supported		SHA1MD51SALTMD5 [60]				SHA1MD5(SALTMD5(PLAIN))			3799aa14bcde8cf0113d3e4841940edcd303b3b2:z	
sha1(md5(md5($plain).$salt))	not supported		SHA1MD51SALTMD5 [61]				SHA1MD5(MD5(PLAIN)SALT)			2d3d0ea2cd5f1d44e58ec13d9d28765925f6b50e:z	
sha1(md5($salt.md5($plain).$salt))	not supported		SHA1MD51SALTMD5 [62]				SHA1MD5(SALTMD5(PLAIN)SALT)			530affa05b2c950cbbbd450963eac589bf369310:z	
sha1(md5($salt.$salt.md5($plain)))	not supported		SHA1MD51SALTMD5 [63]				SHA1MD5(SALTSALTMD5(PLAIN))			b8f00c552823e3eae208031eb35b971bb16521e4:z	
sha1(md5(md5($plain).$salt.$salt))	not supported		SHA1MD51SALTMD5 [64]				SHA1MD5(MD5(PLAIN)SALTSALT)			d26e2cfbc8cc288acb1ddab0c82b5df3a969c23c:z	
md5(sha1(sha1(md5($plain))))	not supported		MD5SHA1SHA1MD5				MD5SHA1X2MD5			26d097ea63f237370c3a1abd340fd47b	
md5("*".mysql5(md5($plain)))	not supported		MD5SQL5MD5				MD5MYSQL5TOTMD5			ff8cd00b64fd24e99ccfde01b98ed5ae	
md5("*".substr(mysql5($plain), 0, 39))	not supported		MD5SQL5-chop40				MD5CUT0-40MYSQL5TOT			ed7c75ed9d60148a0a366ed165fa0ed0	
md5(md5($plain).md5($plain))	not supported		MD5-2xMD5				MD5(MD5(PLAIN)MD5(PLAIN))			40b4e60b3be4fbb3b68da76e243c3aa6	
md5(md5(md5($plain)).md5(md5($plain)))	not supported		MD5-2xMD5-MD5				MD5(MD5X2(PLAIN)MD5X2(PLAIN))			3097986343a271179e3eb1c368c29000	
md5(md5(sha1($plain)).md5(sha1($plain)))	not supported		MD5-2xMD5-SHA1				MD5(MD5(SHA1(PLAIN))MD5(SHA1(PLAIN)))			1b2d63b775654e81b7cd0a9530254487	
md5(md5(md5(md5($plain))).md5(md5(md5($plain))))	not supported		MD5-2xMD5-MD5MD5				MD5(MD5X3(PLAIN)MD5X3(PLAIN))			42602b299e75176268b95bad8c0bebfe	
md5(md5(md5(md5(md5($plain)))).md5(md5(md5(md5($plain)))))	not supported		MD5-2xMD5-MD5MD5MD5				MD5(MD5X4(PLAIN)MD5X4(PLAIN))			96e37df7ccfc2186f18aa2e2af550241	
sha1(md5($plain).$salt)	not supported		SHA1MD5USER [65]				SHA1(MD5(PLAIN)SALT)			59fba7e36f1e3a9f14387a4dd2b4dea206fbec2d:abc123	
sha1(md5($plain).":".$salt)	not supported		SHA1MD5USER [66]				SHA1(MD5(PLAIN)INSDPSALT)			2ad2ffb75b51258c32bf4fb70eab78f8a0b0ed39:abc123	
sha1(md5(radmin2($plain)))	not supported		SHA1MD5RADMIN2				SHA1MD5RADMIN2			c95137fefa0505165c6ee186ca6d69b8d7f9511b	
sha1(sha1($plain).$salt)	not supported		SHA1SHA1USER				SHA1(SHA1(PLAIN)SALT)			870b53971d523aaab216b8fca0eba1ea6849b4dc:abc123	
sha1($salt.md5($plain))	not supported		SHA11SALTMD5 [67]				SHA1(SALTMD5(PLAIN))			3c1b3fe7e515fc1158fa2f9ec9971b1e2789b7bd:z	
sha1(md5($plain).$salt)	not supported		SHA11SALTMD5 [68]				SHA1(MD5(PLAIN)SALT)			79ea327e2b4d17301ed463746fd994ab4ca129f4:z	
sha1($salt.md5($plain).$salt)	not supported		SHA11SALTMD5 [69]				SHA1(SALTMD5(PLAIN)SALT)			c731a85395222432330e14a0bc56e51405c74b59:z	
sha2($salt.$salt.md5($plain))	not supported		SHA11SALTMD5 [70]				SHA1(SALTSALTMD5(PLAIN))			53bb585acd0a526211121cc6c71f67a6581f5988:z	
sha1(md5($plain).$salt.$salt)	not supported		SHA11SALTMD5 [71]				SHA1(MD5(PLAIN)SALTSALT)			a019bcb3908ed3dab6209030a9680771fe8d5b0c:z	
md5(md5($plain).md5($plain).md5($plain))	not supported		MD5-3xMD5				MD5(MD5(PLAIN)MD5(PLAIN)MD5(PLAIN))			098d9dba7f80b5b897f2b0f708f795dc	
md5(md5(md5($plain)).md5(md5($plain)).md5(md5($plain)))	not supported		MD5-3xMD5-MD5				MD5(MD5X2(PLAIN)MD5X2(PLAIN)MD5X2(PLAIN))			a3cface9202b9e1233ac099eec888ae2	
md5(md5(sha1($plain)).md5(sha1($plain)).md5(sha1($plain)))	not supported		MD5-3xMD5-SHA1				MD5(MD5(SHA1(PLAIN))MD5(SHA1(PLAIN))MD5(SHA1(PLAIN)))			6cd2fe29039e8a8895539c7045ec3f21	
md5(md5(md5(md5($plain))).md5(md5(md5($plain))).md5(md5(md5($plain))))	not supported		MD5-3xMD5-MD5MD5				MD5(MD5X3(PLAIN)MD5X3(PLAIN)MD5X3(PLAIN))			a45e142fb280630bb9f5d855f804617e	
md5(md5(md5(md5(md5($plain)))).md5(md5(md5(md5($plain)))).md5(md5(md5(md5($plain)))))	not supported		MD5-3xMD5-MD5MD5MD5				MD5(MD5X4(PLAIN)MD5X4(PLAIN)MD5X4(PLAIN))			1c2db855322f0690e3f5551128a7fb31	
sha1(sha1($plain).sha1($plain))	not supported		SHA1-2xSHA1				SHA1(SHA1(PLAIN)SHA1(PLAIN))			2c9223a90e61b530a93d893d20928fb3cfd969f8	
sha1(sha1(md5($plain)).sha1(md5($plain)))	not supported		SHA1-2xSHA1-MD5				SHA1(SHA1(MD5(PLAIN))SHA1(MD5(PLAIN)))			f63bf4c9c4e7e8fd6e18cd41ff5444541c117230	
sha1(sha1(sha1($plain)).sha1(sha1($plain)))	not supported		SHA1-2xSHA1-SHA1				SHA1(SHA1X2(PLAIN)SHA1X2(PLAIN))			03e654636128d1e8a5f8e8fd6c77903aea670119	
sha1(sha1(md5(md5($plain))).sha1(md5(md5($plain))))	not supported		SHA1-2xSHA1-MD5MD5				SHA1(SHA1(MD5X2(PLAIN))SHA1(MD5X2(PLAIN)))			b21437e0025644e0f302ee58cd5ba31150ccec5b	
sha1(sha1(md5(md5(md5($plain)))).sha1(md5(md5(md5($plain)))))	not supported		SHA1-2xSHA1-MD5MD5MD5				SHA1(SHA1(MD5X3(PLAIN))SHA1(MD5X3(PLAIN)))			46af8d92242b83a8124ca2f3e2fb9960edf683b0	
md5(md5($plain).sha1($plain))	not supported		MD5-1xMD5SHA1				MD5(MD5(PLAIN)SHA1(PLAIN))			76efd5ac16fcec75f67199fdc04357e6	
md5(sha1($plain).md5($plain))	not supported		MD5-1xSHA1MD5				MD5(SHA1(PLAIN)MD5(PLAIN))			36fefc92d6dfe783e67f3972ab053a19	
sha1(sha1($plain).md5($plain))	not supported		SHA1-1xSHA1MD5				SHA1(SHA1(PLAIN)MD5(PLAIN))			432483e921dd7c699bdc00d9e5479c66fb896b5f	
sha1(md5($plain).sha1($plain))	not supported		SHA1-1xMD5SHA1				SHA1(MD5(PLAIN)SHA1(PLAIN))			0e968b431b99bd065154ff29016ff17f05e0bdd3	
md5(md5(md5($plain)).sha1(md5($plain)))	not supported		MD5-1xMD5SHA1-MD5				MD5(MD5X2(PLAIN)SHA1(MD5(PLAIN)))			3718f0715ac49a7da1f51edf9999fc6f	
md5(sha1(md5($plain)).md5(md5($plain)))	not supported		MD5-1xSHA1MD5-MD5				MD5(SHA1(MD5(PLAIN))MD5X2(PLAIN))			861b598aa4172c07f284bc6aabf289d5	
md5(md5(md5(md5($plain))).sha1(md5(md5($plain))))	not supported		MD5-1xMD5SHA1-MD5MD5				MD5(MD5X3(PLAIN)SHA1(MD5X2(PLAIN)))			e7cc97999c3b3fb03bc49b03545c7089	
md5(sha1(md5(md5($plain))).md5(md5(md5($plain))))	not supported		MD5-1xSHA1MD5-MD5MD5				MD5(SHA1(MD5X2(PLAIN))MD5X3(PLAIN))			6824cad5e662b4feebffa15abd0dbb1b	
md5(sha1(md5($plain)).sha1($plain))	not supported		MD5-1xSHA1MD5pSHA1p				MD5(SHA1(MD5(PLAIN))SHA1(PLAIN))			6eaa9120a30006abc6449bd7541f9002	
sha1(sha1(md5($plain)).sha1($plain))	not supported		SHA1-1xSHA1MD5pSHA1p				SHA1(SHA1(MD5(PLAIN))SHA1(PLAIN))			12c77f03b938e5e08097863cc2af9a177aea6517	
md5(sha1(sha1(md5($plain)).sha1($plain)))	not supported		MD5SHA1-1xSHA1MD5pSHA1p				MD5SHA1(SHA1(MD5(PLAIN))SHA1(PLAIN))			c2b102397dac906fd058e3bbc09a92cf	
sha1(sha1($plain).substr($plain,0,1))	not supported		SHA1-1xSHA1psubp [72]				SHA1(SHA1(PLAIN)CUT0-1(PLAIN))			fc8ee9b8a5de83a40eff442213e983573a6979ac:r	
sha1(sha1($plain).substr($plain,0,2))	not supported		SHA1-1xSHA1psubp [73]				SHA1(SHA1(PLAIN)CUT0-2(PLAIN))			b719f8c34ab7eb268ddd4ced305126e795e512fb:ro	
sha1(sha1($plain).substr($plain,0,3))	not supported		SHA1-1xSHA1psubp [74]				SHA1(SHA1(PLAIN)CUT0-3(PLAIN))			40cc0246bdac99966cd02b3afdf1e59f2de4e885:ros	
sha1(sha1($plain).substr($plain,0,4))	not supported		SHA1-1xSHA1psubp [75]				SHA1(SHA1(PLAIN)CUT0-4(PLAIN))			7802a9adad49381d89eaec6ea0594c4492884d11:rose	
sha1(sha1($plain).substr($plain,0,5))	not supported		SHA1-1xSHA1psubp [76]				SHA1(SHA1(PLAIN)CUT0-5(PLAIN))			a175480de09ea97a352383bb3f877edcf8d5736e:roset	
sha1(sha1($plain).substr($plain,0,6))	not supported		SHA1-1xSHA1psubp [77]				SHA1(SHA1(PLAIN)CUT0-6(PLAIN))			1d767803fa0df6b9aa272537382fcb238946c9fc:rosett	
sha1(sha1($plain).substr($plain,0,7))	not supported		SHA1-1xSHA1psubp [78]				SHA1(SHA1(PLAIN)CUT0-7(PLAIN))			f9cd83bc7ddef917762fcaf5e0ca647e10bc94b0:rosetta	
sha1(sha1($plain).substr($plain,0,8))	not supported		SHA1-1xSHA1psubp [79]				SHA1(SHA1(PLAIN)CUT0-8(PLAIN))			--	
md5(tiger2($plain))	not supported		MD5TIGER2				MD5TIGER2			52d109ccb350d39972e43bbf49d78bbe	
md5(sha1(md5(md5($plain))))	not supported		MD5SHA1MD5MD5				MD5SHA1MD5X2			4cabdaf855b949363baa03618f8ff29a	
md5(sha1(md5(radmin2($plain))))	not supported		MD5SHA1MD5RADMIN2				MD5SHA1MD5RADMIN2			b37ac2e604f8b1e06c8fabcc336ae7fa	
md5(sha1(md5(md5(md5(sha1($plain))))))	not supported		MD5SHA1MD5MD5MD5SHA1				MD5SHA1MD5X3SHA1			52afd545b429a7051283aa4ecd630bbd	
md5(sha1($plain, true))	not supported		MD5SHA1RAW [80]				MD5RAWSHA1			cc13a724da0ebfc731db88ac74d79fbe	
md5(sha1(md5(md5(md5($plain)))))	not supported		MD5SHA1MD5MD5MD5				MD5SHA1MD5X3			44045082a1e48e9c2e437f287ee1913b	
md5("*".substr(mysql5($plain), 0, 31))	not supported		MD5SQL5-32 [81]				MD5CUT0-32MYSQL5TOT			d5dfeff011cb674cb24bad9b1692d1e9	
md5("*".substr(mysql5($plain), 0, 32))	not supported		MD5SQL5-32 [82]				MD5CUT0-33MYSQL5TOT			04e9c7e2c18ad3652a5cf99f08212a4d	
md5(substr(mysql5($plain), 0, 31))	not supported		MD5SQL5-32 [83]				MD5CUT1-32MYSQL5TOT			bb8b4ef7643442c3fbebe8bf7be4be75	
md5("1*".substr(mysql5($plain),0,30))	not supported		MD5SQL5-32 [84]				MD5INS1CUT0-31MYSQL5TOT			0043b42cca3fb55158310e4ecf633663	
md5("*".substr(strtolower(mysql5($plain)), 0, 31))	not supported		MD5SQL5-32 [85]				MD5CUT0-32MYSQL5LCTOT			07cdc6f01ab4d274383cd5e7aed55c66	
md5("*".substr(strtolower(mysql5($plain)), 0, 32))	not supported		MD5SQL5-32 [86]				MD5CUT0-33MYSQL5LCTOT			b3fe926c32fda29d2c63641da5c8d877	
md5(substr(strtolower(mysql5($plain)), 0, 31))	not supported		MD5SQL5-32 [87]				MD5CUT1-32MYSQL5LCTOT			60483c03be94a2a21f1621d4d82bf695	
md5("1*".substr(strtolower(mysql5($plain)),0,30))	not supported		MD5SQL5-32 [88]				MD5INS1CUT0-31MYSQL5LCTOT			bfdab96a8999bc38c845dcd348f26ad6	
md5($salt.md5(md5(md5($plain))))	not supported		MD51SALTMD5MD5MD5 [89]				MD5(SALTMD5X3(PLAIN))			beec75421ea69df693ec7a323d0902bb:z	
md5(md5(md5(md5($plain))).$salt)	not supported		MD51SALTMD5MD5MD5 [90]				MD5(MD5X3(PLAIN)SALT)			b80e0d18b4cc78e41836d459fd50cf50:z	
md5($salt.md5(md5(md5($plain))).$salt)	not supported		MD51SALTMD5MD5MD5 [91]				MD5(SALTMD5X3(PLAIN)SALT)			33e63d8b5c509e87990dd36e4cd081f0:z	
md5($salt.$salt.md5(md5(md5($plain))))	not supported		MD51SALTMD5MD5MD5 [92]				MD5(SALTSALTMD5X3(PLAIN))			c8394bb56c2378263ffb22566ab93bbe:z	
md5(md5(md5(md5($plain))).$salt.$salt)	not supported		MD51SALTMD5MD5MD5 [93]				MD5(MD5X3(PLAIN)SALTSALT)			618c878f956b2c83a5802d67514b0813:z	
md5($salt.md5(md5(md5(md5($plain)))))	not supported		MD51SALTMD5MD5MD5MD5 [94]				MD5(SALTMD5X4(PLAIN))			65478f4bdc44a5d0982270f5618d6ec1:z	
md5(md5(md5(md5(md5($plain)))).$salt)	not supported		MD51SALTMD5MD5MD5MD5 [95]				MD5(MD5X4(PLAIN)SALT)			9d0efad25d10b8acc657f34801e210f1:z	
md5($salt.md5(md5(md5(md5($plain)))).$salt)	not supported		MD51SALTMD5MD5MD5MD5 [96]				MD5(SALTMD5X4(PLAIN)SALT)			184304fbbaf73a6f9938161e6b35def8:z	
md5($salt.$salt.md5(md5(md5(md5($plain)))))	not supported		MD51SALTMD5MD5MD5MD5 [97]				MD5(SALTSALTMD5X4(PLAIN))			ffabbc307a510b655193bad10503d721:z	
md5(md5(md5(md5(md5($plain)))).$salt.$salt)	not supported		MD51SALTMD5MD5MD5MD5 [98]				MD5(MD5X4(PLAIN)SALTSALT)			8e9b0aa7b44eeedfa89893a88f7b72be:z	
md5($salt.md5(md5(md5(md5(md5($plain))))))	not supported		MD51SALTMD5MD5MD5MD5MD5 [99]				MD5(SALTMD5X5(PLAIN))			956eda2409fd8cdb05835ffe6a54ed03:z	
md5(md5(md5(md5(md5(md5($plain))))).$salt)	not supported		MD51SALTMD5MD5MD5MD5MD5 [100]				MD5(MD5X5(PLAIN)SALT)			c8d6817e70931dbea54ef52e06fcafea:z	
md5($salt.md5(md5(md5(md5(md5($plain))))).$salt)	not supported		MD51SALTMD5MD5MD5MD5MD5 [101]				MD5(SALTMD5X5(PLAIN)SALT)			a7da59261a89e2eb5ff327ad51b9223d:z	
md5($salt.$salt.md5(md5(md5(md5(md5($plain))))))	not supported		MD51SALTMD5MD5MD5MD5MD5 [102]				MD5(SALTSALTMD5X5(PLAIN))			c8b2aeae12dbec1efee4b8c7257f82cd:z	
md5(md5(md5(md5(md5(md5($plain))))).$salt.$salt)	not supported		MD51SALTMD5MD5MD5MD5MD5 [103]				MD5(MD5X5(PLAIN)SALTSALT)			fa1ec96b95f66189755748f6fa62df29:z	
md5(base64_encode(str_rot13($plain)))	not supported		MD5BASE64ROT13				MD5BASE64ROT13 [104]			ba99fae073973d8ed10b946f7fd47965	
md5(md5(md5($plain)).$salt)	not supported		MD5MD5SALT				MD5(MD5(MD5(PLAIN))SALT)			661bb5e44a125ae81ec14925465ed923:abc123	
md5(substr($salt,0,1).md5(md5($plain)).substr($salt,1,1))	not supported		MD52SALTMD5MD5 [105]				MD5(CUT0-1(SALT)MD5X2(PLAIN)CUT1-1(SALT))			5847720465b843ec63e7421895e1179b:zz	
md5($salt.md5(md5($plain)))	not supported		MD52SALTMD5MD5 [106]				MD5(SALTMD5X2(PLAIN))			13cf2b2c412cb9b768d06bf362cdff22:zz	
md5(md5(md5($plain)).$salt)	not supported		MD52SALTMD5MD5 [107]				MD5(MD5X2(PLAIN)SALT)			ddbc976e417cfcf89ab95012b833f447:zz	
md5(substr($salt,0,1).md5(md5(md5($plain))).substr($salt,1,1))	not supported		MD52SALTMD5MD5MD5 [108]				MD5(CUT0-1(SALT)MD5X3(PLAIN)CUT1-1(SALT))			33e63d8b5c509e87990dd36e4cd081f0:zz	
md5($salt.md5(md5(md5($plain))))	not supported		MD52SALTMD5MD5MD5 [109]				MD5(SALTMD5X3(PLAIN))			c8394bb56c2378263ffb22566ab93bbe:zz	
md5(md5(md5(md5($plain))).$salt)	not supported		MD52SALTMD5MD5MD5 [110]				MD5(MD5X3(PLAIN)SALT)			618c878f956b2c83a5802d67514b0813:zz	
md5(strtoupper(md5($plain)).$salt)	not supported		MD5UCSALT				MD5(UC(MD5(PLAIN))SALT)			b9d85636910f2df5c30158349ab78578:abc123	
md5(tiger192_3($plain))	not supported		MD5TIGER				MD5TIGER192-3			61ea24a8c78e2e11be379bba5938c87f	
md5(sha1(md5($plain)).$plain)	not supported		MD5SHA1MD5PASS				MD5(SHA1(MD5(PLAIN))PLAIN)			7f1b232f6f446ba43f25b2e705994ac4	
	not supported		MD5CAP [111]				MD5CAPMD5			bd62daf88a5f6d734e91228e7f2e540a	
	not supported		MD5CAPMD5USER [112]				MD5(CAPMD5(PLAIN)SALT)			05b56c69b512a1c641fc59d1070df60b:abc123	
	not supported		MD5CAPMD5USER [113]				MD5(CAPMD5(PLAIN)INSDPSALT)			d4f7dec5b98ac42336b1c9e56f2e5ca8:abc123	
	not supported		MD5CAPMD5MD5USER [114]				MD5(CAPMD5(CAPMD5(PLAIN))SALT)			ff550698c6f0401ea1977cfec33e1aa0:abc123	
	not supported		MD5CAPMD5MD5USER [115]				MD5(CAPMD5(CAPMD5(PLAIN))INSDPSALT)			34c0494af3c3d113f28b2f28eb062539:abc123	
	not supported		MD5MD5MD5USER [116]				MD5(MD5(MD5(PLAIN))SALT)			661bb5e44a125ae81ec14925465ed923:abc123	
	not supported		MD5MD5MD5USER [117]				MD5(MD5(MD5(PLAIN))INSDPSALT)			8c52376fdd3f07e3be13a0fda50df38d:abc123	
	not supported		MD5MD5SALT:SALT				MD5(MD5(PLAINSALT)INSDPSALT)			859ac5b6dbea7213328c7642bef0207f:abc123	
	not supported		MD5CAPSHA1				MD5CAPSHA1			17fd98f4dab3a23ddcaa51325c88248f	
	not supported		MD5SHA1MD5x				MD5SHA1MD5 [118]			8f86f37af34709b6d0336d7a7b601a90:1	
	not supported		MD5SHA1BASE64MD5RAW				MD5SHA1BASE64RAWMD5			182e6e3fa8a86f407684a28684dec056	
	not supported		MD5SHA1MD5MD5SHA1				MD5SHA1MD5MD5SHA1			41d4de305bb0adf04871eb19abbb8169	
	not supported		MD5SHA1MD5UC				MD5SHA1UCMD5			36231418e02c6d9ecd6a67638d6b97de	
	not supported		MD5MD5HUM [119]				MD5HUMMD5 [120]			1a543e677930aba992f4a712b93c2b25:00	
	not supported		MD5MD5HUM [121]				MD5HUMMD5 [122]			3feaf9fcc8405b5c897cba4aea548c18:00	
	not supported		MD5MD5HUM [123]				MD5HUMMD5 [124]			c95b954cee7c6cb9ffb398beae5706c1:20	
	not supported		MD5MD5HUM [125]				MD5HUMMD5 [126]			d8ca53a06b2704d6bd4dbdf1bef4ca81:20	
	not supported		MD5MD5HUM [127]				MD5HUMMD5 [128]			675c781da94bf09386ecc5b64ff1d65f:0d	
	not supported		MD5MD5HUM [129]				MD5HUMMD5 [130]			72b467e384faaf80fd982e6d887029fd:0d	
	not supported		MD5MD5HUM [131]				MD5HUMMD5 [132]			94796e3fc730487b9062e9bf0c70c994:0d0a	
	not supported		MD5MD5HUM [133]				MD5HUMMD5 [134]			31c647de06f86d13e53dec862122e493:0d0a	
	not supported		MD5MD5HUM [135]				MD5HUMMD5 [136]			d7d61eb5e27f983b1277b28340d72b49:0a	
	not supported		MD5MD5HUM [137]				MD5HUMMD5 [138]			c05e829f4a286e56bcf2db53f92870f0:0a	
	not supported		MD5MD5HUM [139]				MD5HUMMD5 [140]			92c09d631bbe4b7555324d97bf4ad46d:0d0d	
	not supported		MD5MD5HUM [141]				MD5HUMMD5 [142]			537715ea4ebb9dc6f0d8a85048a19ca0:0d0d	
	not supported		MD5MD5HUM [143]				MD5HUMMD5 [144]			f87457956b5895941397f116d67e4c58:0a0a	
	not supported		MD5MD5HUM [145]				MD5HUMMD5 [146]			246bd0901f4ec0cf8d913dea17f34cfa:0a0a	
	not supported		MD5MD5HUM [147]				MD5HUMMD5 [148]			7eda0dd1ec07e319260d7c76365cbb55:0a0d	
	not supported		MD5MD5HUM [149]				MD5HUMMD5 [150]			f743d071bc5448f6c00582d214e6e2b3:0a0d	
	not supported		SHA1MD5HUM								
	not supported		SHA1SHA1HUM								
	not supported		MD5SHA1HUM								
	not supported		MD5-MD5SALTMD5PASS								
md5(ntlm($plain))	not supported		MD5NTLM				MD5NTLM			4983de586b9b92be8fbcafe01b7e8cdb	
ntlm($plain) / md4(utf16-le($plain))	not supported		NTLM				NTLM			a2dde7c8056b54f9f419fc9b62cb6611	
md5(md4($plain))	not supported		MD5MD4				MD5MD4			bd8f3885f87732da8f225adce02a6c95	
md5(upper(ntlm($plain)))	not supported		MD5NTLMUC				MD5UCNTLM			69d5cad6c179e4629634a2d4d921b2c1	
			MD5USERPASS								
			MD5PASSSALT								
	not supported		MD5SHA1RADMIN2MD5								
	not supported		MD5UCBASE64MD5RAW								
	not supported		MD5UCBASE64SHA1RAW								
	not supported		MD5SHA1MD5MD5UC								
	not supported		MD5SHA1MD5HUM								
md5(lm($plain))	not supported		MD5LM				MD5LM			a3e5fb855e307c0674b12ccb1346f317	
			SHA256SHA256SALT								
	not supported		MD5SHA1UCu32								
			SHA1SALTPASS								
			SHA512PASSSALT								
			SHA512SHA512SALT								
			SHA512SALTPASS								
			SHA512SALTSHA512								
	not supported		WRLPASSSALT								
	not supported		WRLWRLSALT								
	not supported		WRLSALTPASS								
	not supported		WRLSALTWRL								
			MD5SALTPASS								
	not supported		SHA1SALTPASSSALT								
	not supported		MD5MD5UCSHA1MD5MD5								
	not supported		MD5SHA256MD5								
	not supported		SHA1lsb32								
	not supported		MD5-2xMD5UC								
	not supported		MD5-4xMD5				MD5(MD5(PLAIN)MD5(PLAIN)MD5(PLAIN)MD5(PLAIN))				
	not supported		MD5-SHA1numSHA1								
	not supported		MD5-2xSHA1								
	not supported		SHA1-2xMD5								
	not supported		SHA1DRU								
	not supported		SHA1PASSSALT								
	not supported		SHA256MD5SALTPASS								
	not supported		MD5padMD5								
	not supported		MD5DSALT								
	not supported		SHA1lsb35								
md4(mysql3($plain))	not supported		MD4SQL3				MD4MYSQL3			af890c9705389d77919d0d502f560fb2	
	not supported		MD5-MD5SHA1MD5SHA1MD5SHA1p								
	not supported		MD5MD5UCSQL3p								
	not supported		MD5MD5UCp								
	not supported		MD5NTLMp								
	not supported		MD5-MD5USERSHA1MD5PASS								
	not supported		MD5SHA1u32SALT								
	not supported		MD5-LMNTLM							3bad23f2a023a7ea5d5c2e7768ef0b6a	
	not supported		MD5-MD5psSHA1MD5psp							253d5531b71afa25fd28fa3cf8b45b6d:cd6bc227	
	not supported		MD5-MD5puSHA1MD5pup							95020dae731d5a01e096f79bf3d07abc:1	
md5(wrl(md5($plain)))	not supported		MD5WRLMD5				MD5WRLMD5			222e26d7e74beac7b7dd053ad00521cc	
null($plain)	not supported		NULL							726f7365747461000000000000000000	
	not supported		PARALLEL								
pomelo($plain)	not supported		POMELO							b4dd8a03985988ef432af66ca8a9b4d63b7b6cf4a07a9392dfb9c0b516048fee:administrator	
streebog-32($plain)			STREEBOG-32							f7359dde49e3a47e6046322f016b0cf7b5de4a62cdaf174a06330f43ca329210	
streebog-64($plain)			STREEBOG-64							ef6239cb4ceb087bc3cb8b0f8fe5f7f7c9ca73ec885ec721d641ae1d427092c2c1c3cce546c0edf5041e8a[illegible]	
	not supported		MD5AM							95e20a37247b576b68f9f4e1d389c3ad:admin	
	not supported		MD5AM2							95e20a37247b576b68f9f4e1d389c3ad:admin	
	not supported		MD5SWAP							008c087f234c6666d4551b52ea6ef848	
	not supported		MD5SPECAM								
sha1(hesk($plain)) ?	not supported		SHA1HESK				HESK-SHA1			9ce50d5db3c6a87fb939d220f7924a06da14de98	
md5(hesk($plain)) ?	not supported		MD5HESK				HESK-MD5			82906a2560b4b670589b6565ccb715de	
sha1($salt.sha1($salt.sha1($plain))) (AKA Opencart)	13900		SHA1SALTSHA1SALTSHA1PASS				SHA1(SALTSHA1(SALTSHA1(PLAIN)))			3bd23f4d8de0744d2c294c5a9e90ea661356ff97:472433673	
mscache($plain)	1100		MSCACHE							f43fd64d8e4a84cd72ea440264ebdf60:Administrator	
md5(sha1($salt).md5($plain))	21200		MD5SHA1SALTMD5PASS								
	not supported		MD5SALTMD5PASS								
md5(sha1($plain).md5($pass).sha1($plain))	20900		MD5SHA1PASSMD5PASSSHA1PASS								
md5(sha1($plain.$salt))	4420		MD5SHA1PASSSALT								
	not supported		LEET-SHA512-WRL-USER								
	not supported		SHA1-SALT-SPECIAL								
	not supported		SHA1-SALT-UTF16-PEPPER								
	not supported		SHA256RAWSALTPASS								
	not supported		SHA512_CUSTOM1							dc05f141a9756ab2ce847d41b93f08177f47a3a2d74034c0bad544c423d43a17aea449e94b701b352f457b[illegible]	
md5(mysql3($plain))	not supported		MD5SQL3				MD5MYSQL3			b7e803459368f3aeb5cf892a5884db5e	
bcrypt(md5($plain))	not supported		BCRYPTMD5				BCRYPTMD5			$2y$12$sQAjI1tnXS4PCojWebPGteIV7AVSonJFTkP95UaMg.PSZEFLxDpWe	
bcrypt(sha1($plain))	not supported		BCRYPTSHA1				BCRYPTSHA1			$2y$12$9keRDvsa.Xgu4tB.CBXUEecBu3TkKmW4Y7kZ/SciKOB0.FhQI1Rre	
md5(cut8-16(md5($plain)))	not supported		MD5sub8-24MD5				MD5CUT8-16MD5			ce37ee3731fc4afd219c1321c98c7593	
	not supported		MD5sub8-24MD5sub8-24MD5				MD5CUT8-16(MD5CUT8-16(MD5(PLAIN)))			ab7a37c36dd93f9e05308253b61dbfcd	
	not supported		MD5-MD5PASSMD5SALT				MD5(MD5(PLAIN)MD5(SALT))				
	not supported		YAF-SHA1								
md5(reverse(md5(sha1($plain))))	not supported		MD5revMD5SHA1				MD5REVMD5SHA1			c1ac7472983755f92cb8d70b8a012b71	
md5(sha1(base64(sha1(md5($plain)))))	not supported		MD5SHA1BASE64SHA1MD5				MD5SHA1BASE64SHA1MD5			220906215b204c18856a5d720d4db7ec	
	not supported		SHA1-8TRACK				not supported			33dfc2cb277f3e4dd646e55b97cb533e8063a7b7:administrator	
sha1(wrl($plain))	not supported		SHA1WRL				SHA1WRL			400c5c89f5d57edd3fe327ff1a93012ff8413101	
sha1(reverse(md5($plain)))	not supported		SHA1revMD5							021a6203fd00c33333ba067db54dac358ee8c601	
sha1(md5(md5($pass).$salt))	not supported		SHA1-MD5SALT								
	not supported		SHA1-revMD5SALT								
	not supported		SHA1revMD5PASSSALT								
	not supported		SHA1MD5PASSSALT								
	not supported		SHA1-MD5MD5SALT								
sha1(md5($pass).$salt)	4710		SHA1MD5PASS-SALT								
	not supported		SHA1SALTMD5PASS								
	not supported		SHA1SALTrevMD5PASS								
	not supported		SHA1USERSQL3								
sha1(sha256($plain))	not supported		SHA1SHA256				SHA1SHA256			50e4250d54faf88031c4280200baeb8a7cbd4366	
sha1(sha384($plain))	not supported		SHA1SHA384				SHA1SHA384			fc7fe4000cb2c6a5aec736e1311ca3e71e1487f9	
sha1(sha512($plain))	not supported		SHA1SHA512				SHA1SHA512			a644b1af90da91205d1c9916b765464ab8b0b404	
sha1(mysql3($plain))	not supported		SHA1SQL3				SHA1MYSQL3			1573d58bf304e45e8e99789f2faf6780de72a84b	
sha1(upper(wrl($plain)))	not supported		SHA1UCWRL				SHA1UCWRL			b71d157fa4bc686d61db7bcc2afa1482f40f4707	
sha1(wrl(md5($plain)))	not supported		SHA1WRLMD5				SHA1WRLMD5			e760053de5e44c59ce05dfb04ae05233a1b1ed96	
sha1(md5(sha1(md5(sha1(md5(sha1($plain)))))))	not supported		SHA1MD5SHA1MD5SHA1MD5SHA1				SHA1MD5SHA1MD5SHA1MD5SHA1			810f0d564bdbf379e6603054eeeca7f9dd34e3ff	
wrl(sha512($plain))	not supported		WRLSHA512				WRLSHA512			b11ffa76a41fae7d8fd8b2845bce5c6a40bb379480638f68e0f8272bd6074cd5267dc64b953811a03f1d20[illegible]	
md5(gost($plain))	not supported		MD5GOST				MD5GOST			36d2fe2b64a0fe4cf1e04b9069942f46	
md5(gost(md5($plain)))	not supported		MD5GOSTMD5				MD5GOSTMD5			475a7009441dfc0b94c6013ec2fedb86	
	not supported		MD5GOSTMD5UC				MD5GOSTUCMD5			8db935a1650102f98d851608f5d35a0d	
md5(wrl_raw($plain))	not supported		MD5WRLRAW				MD5RAWWRL			7c07f975b91b54215e6d4e78a6fbfc33	
	not supported		MD5-4xMD5-SALT								
			SHA256UC								
md4(sha1(md5($plain)))	not supported		MD4SHA1MD5				MD4SHA1MD5			d76f10184242d1eaff902b4f2e64d0de	
md5(md5_raw(md5_raw($plain)))	not supported		MD5RAWMD5RAW							6039793142ce220e0b524011243e0eb0	
md5(sha1(base64(sha1_raw($plain))))	not supported		MD5SHA1BASE64SHA1RAW				MD5SHA1BASE64RAWSHA1			94cce33cd986b5ad039269ebce549444	

Algorithm	Hashcat mode	Hashcat legacy	MEDEAcat algo	MEDEAcat extra_params	John CPU	John GPU	hashes.org algo	hashes.org comment	class	Example Hash (plain: masatta, or as specified)	Notes
md5(lowercase(md5(utha1(utha1(lpass))))	not supported		MD5lowMDEDHA1SHA1				MEDREVMDEDHA1SHA1			7b7b4b0b27191e6ab21b5f57b7b1b5152c0d	
md5(md5(lpass))	not supported		MD5MD5				MEDMD5			319b1b0b5f1b1b5aeb1b5e1c1b6aeb1d	
md5(raw_md5(lpass))	not supported		MD5MD5RAW				MEDMD5RAW			73d4a21cc4c1f6f5777b07b4f1b1aea277e	
md5(base64(raw_sha256)) ?	not supported		MD5BASE64SHA256RAW				MEDBASE64SHA256RAW			2c0d8e7c4f50b5b7d41b1f6b18b4b2cb4d511	
md5(uf16l(lpass))	5500		MD5UTF16				NTLM			4f5cc4b0b5f9f71d3e972a27f4f9b4d5ae7e	
md5(uf16l(md5(lpass)))	not supported		MD5UTF16MD5				NTLMMD5				
	not supported		RIPEMD640								
	not supported		MD5SHA0								
sleezy(lpass)	5600		MD5NETNTLMV2				DESCRYPT			ec30ca8e80c6c4e8	
md5(sleezy(lpass))	not supported		MD5DESCRYPT				MEDDESCRYPT			ceb1c3d75ae24c0b4f1c7151e45ca63f93c1e	
md5(sleezy(lpass))	not supported		MD5DESCRYPT				MEDDESCRYPT			8cada1b51e63ba6b2d4f8b2b4d1baa5e5f6fc1fe	
md5(lpass.utha1(md5(lpass)))	not supported	not supported	MD5FIASSDHA1MD5							51aa13e5fd7c1aaa1c56ba7aa63f1b1da8a6	
	not supported		MD5FIASSMD5MD5FIASS								
	not supported		MD5FIASSMD5MD5MD5								
md5(md5(lpass).lpass.md5(lpass))	not supported		MD5 MD5FIASSMD5								
	not supported		MD5FIASSSHA1								
md5(md5(lpass) . lpass . sha1(lpass))	not supported		MD5MD5FIASSSHA1				MEDMD5PLAINUPLAINSHA1UPLAIN()				
	not supported		MD5 MD5FIASSMD5MD5MD5SHA1SHA1MD5								
	not supported		SHA1CODALTMD5								
	not supported		SHA1CODALTMD5								
	not supported		MD5 SALTMD5PASSSALT								
	not supported		MD5 SALTMD5SALTPASS								
	not supported		MD5 MD5PASS SALT								
	not supported		MD5 MD5SALT PASS								
	not supported		MD5 PASS MD5SALT								
sha1 ($salt.sha1($plain))	4520		SHA1SALTSHA1PASS				?			6a23ada4c5515a7ac5aaa7a577e721dd439c78e0f21c4832150139d	
	not supported		SHA1SALTCS								
	not supported		MD5SHA1MD5SHA1MD5SHA1MD5SHA1MD5SHA1MD5SHA1MD5SHA1								
sha256($salt.sha256($pass))	1420		SHA256SALTSHA256								
	not supported		MD5MD5MARMD5EIM								
	not supported		MD5MD5MARMD5EIMSHA1MD5								
md5($salt.sha1($salt.$pass))	21300		MD5 SALTSHA1SALTPASS								
	5000		CISCO8				not supported			2000:hex(...4f5d6b2d0f2f2):rgf3hwaxbdbg5rvgp6ezfjtwa43fqhf1mnzj3fkaltrj7fqf4tnt...	
pbkdf2-sha256($plain)	10900		PBKDF2-SHA256				PBKDF2				
pbkdf2-md5($plain)	11900		PBKDF2-MD5				PBKDF2			md5:<1000:salt:24dfc3d3f3588dcc<<48fe4324<<f0e7e44d5e45a5e7ccg:YbHgdLe+2A6Mkwa8cyo=	
pbkdf2-sha1($plain)	24000		PBKDF2-SHA1				PBKDF2				
pbkdf2-sha512($plain)	24200		PBKDF2-SHA512				PBKDF2				
	not supported		SHA1 CUSTOM								
	not supported		SHA1 CUSTOMUSERSALT								
progressivecode($plain)	29200		PROGRESSIVECODE				not supported			b.)nbd3bnaabbgdnd.b	
ripemd($plain)	not supported		RIPEMD				not supported			73e5d6ad4f3dc45d8c6c0a87c3f0f1d3ade8	
sha4320sha4320($plain, hser)			SHA2304RAW				SHA2304RAWSHA204			1d6ba61d4d5133d6a67f47ac7aa421d7b62ad1d3f67f99b1c9f45d18e4c4	
sha256sha256($plain, hser)	21400		SHA256RAW				SHA256RAWSHA256			ce71a6359d1b8ba7bbb0f77fc4d3e3d0f7fc4d3e3d0f7fc4d3e3d0f7fc4f45ca8e4b4253	
sha256sha384($plain, hser)			SHA384RAW				SHA384RAWSHA384			2f473e4ab4c2439f7be61f77e6b4e1f3d1f96d175a1f8aa3fec8d6c1bffa7f55caaabd7ba23464347ba5f33c38478b8a7ad1f66f7be0f2c37f4	
sha512(sha512($plain, hser))			SHA512RAW				SHA512RAWSHA512			9b43aab0f4b5f4f6218f7f6f778e64d6f4b24baa7f3f3bbb7b777caad8a4f5c7e0e5f2c9f4b4f81c4de7a7f7ba4aaa4ab6d1f3777d1bc4f6a62a5d7198e9573aacc66ae9b5457ae69de4	
	not supported		HAVAL128				HAVAL128.3			27d3a8b9a45a5c5f1f7141d1f04a1d770c92	
	not supported		HAVAL128_4				HAVAL128.4			6a9f1f1ab4f1b5f1f4a1b5b3a8f1c1d5f3b7b4d	
	not supported		HAVAL128_5				HAVAL128.5			6a9f1f1ab4f1b5f1f4a1b5b3a8f1c1d5f3b7b4d	
	not supported		HAVAL160_3				HAVAL160.3			e9fac73d1b6f7c4f251aae8f3339f3249777ccaaaae0e	
	not supported		HAVAL160_4				HAVAL160.4			3a2f24cebc3b34f777da1c4b8854ad1b1e4f9f6b6d2c4	
	not supported		HAVAL160_5				HAVAL160.5			4d4f5f3f2d1d1c1c1f4e6f4a8b79613430139b7322df54	
	not supported		HAVAL192_3				HAVAL192.3			7f4d13a6f1c7ae6a7cc4c7b1d1f5f7fa7bc1c2d1a1da7f4f1f6	
	not supported		HAVAL192_4				HAVAL192.4			7ddaa79f1f1f7b4b1f1f5f7c1aaa6f1f1f7d7a7bc1ca1a7d51d1a5	
	not supported		HAVAL192_5				HAVAL192.5			c1fe51c77ad6f1c2fc4b4b7f4de5f1fc4ad6d1f1f7e4a5771c4a5f5	
	not supported		HAVAL224_3				HAVAL224.3			33b51b6ad1f1f1a1c6a3a11a4720ad7b1c1f1f4f1f1f4f1f1f4a5f14	
	not supported		HAVAL224_4				HAVAL224.4			1f1f1a1c6a3a11a4720ad7b1c1f1f4f1f1f4f1f1f4a5f14bc1a5f1f	
	not supported		HAVAL224_5				HAVAL224.5			1f1f1a1c6a3a11a4720ad7b1c1f1f4f1f1f4f1f1f4a5f14bc1a5f1f	
	not supported		HAVAL256				HAVAL256.3			47a6bc9134a52e5c7ac36df3ad6f1f1f1f1f1f1f1f1f1f1f1f1f1f1f	
	not supported		HAVAL256_4				HAVAL256.4			4d5f1f1f1a1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f	
	not supported		HAVAL256_5				HAVAL256.5			4e5a7c7613b6a5a1b4c5706e1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f	
md5(reverse($plain))	not supported		MD5rev		not supported	not supported	not supported (just reverse list)			4e5c1d5d5f1f1f1f1aba1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f	
sha1(reverse($plain))	not supported		SHA1rev		not supported	not supported	not supported (just reverse list)			9ce6fc4f1c1f1f0bda1ba61f1f1f1f1f1f1f1f1f1f1f1f1f1f1f1f	
md5(uf16l(md5($plain)))	5500		not supported				TRSLLHUNTNTLM				
md5(md5(md5(md5($plain).$salt1).$salt2))	31700		not supported		not supported	not supported	not supported				

Proposed primitives

- Goal: clear, near-universal meta-language for expressing algorithms. Ideally, both human-readable and machine-readabl in consistency and clarity.
- Suggest starting with JtR's as a base - it's clear and stable

Token	**Type**	**Description**	**Aliases**	**Example**	**Comment**
$p	literal	password	$pass, $plain		
$s	literal	salt	$salt		
truncX	function	truncate to length X	truncate,chop		Maybe a single primitive that accepts a value, rather than one primitive per truncation length? The latter would be more flexible, but might be less readable.
utf16le	function	utf16le			
base64	function	base64 encode	base64_encode		
rev	function	reverse	reverse,str_reverse,strrev		
uc	function	uppercase,cap	toupper,strtoupper		
lc	function	lowercase	tolower,strtolower		
substr	function		sub		
hmac	meta-function				
raw	meta-function				
?	meta-function				bit order? (bcad, etc.)
hex	meta-function	Hex encoded			that the item specified is expressed as hex
hum	meta-function	human			trailing newlines, etc?
swap	meta-function				
null	meta-function		dummy		no-op
aes	core algo				
cube	core algo				
des	core algo				
descrypt	core algo				
echo	core algo				
edon	core algo				
fugue224	core algo				
fugue256	core algo				
fugue384	core algo				
fugue512	core algo				
gost	core algo				
groestl	core algo				
hamsi	core algo				
haval128	core algo				
haval160	core algo				
haval192	core algo				
haval224	core algo				
jh	core algo				
keccak	core algo				
lm	core algo				
luffa	core algo				
md2	core algo				?
md4	core algo				
md5	core algo				
mongo	core algo				
mysql5	core algo				
ntlm	core algo				
panama	core algo				
pbkdf2	core algo				
radmin2	core algo				
ripemd128	core algo				
ripemd160	core algo				
ripemd256	core algo				
ripemd320	core algo				
scrypt	core algo				
sha0	core algo				
sha1	core algo				
sha224	core algo				
sha256	core algo				
sha256crypt	core algo				
sha384	core algo				
sha512	core algo				
sha512crypt	core algo				
shavite	core algo				
skein	core algo				
snefru128	core algo				
snefru256	core algo				
tiger128	core algo				
tiger160	core algo				
tiger192	core algo				
whirlpool	core algo				

Other rosettas								
	https://mattw.io/hashID/types							
Rules rosetta								
	https://docs.google.com/spreadsheets/d/1vDQWg-eZplEScs7sF4m3eJCEGq3bmmifHsLGL73n4Ig							
Good refs								
	https://miloserdov.org/?p=5960							
		-form=dynamic='EXPRESSION'						
Other suites (for potential inclusion someday)								
	Passware	https://support.passware.com/hc/en-us/articles/5373220102423-What-hash-types-are-supported-in-Passware-Kit-						
	Elcomsoft	https://www.elcomsoft.com/edpr.html						
Last updated	*2023-05-04*							

[1] needs to be run with -i2

[2] this algorithm techincally tests two variants

[3] this algorithm tests for three variants

[4] this algorithm tests for three variants

[5] this algorithm tests for three variants

[6] this algorithm tests for three variants

[7] this algorithm tests for three variants

[8] this algorithm tests for three variants

[9] this algorithm tests for three variants

[10] this algorithm tests for three variants

[11] this algorithm tests for three variants

[12] this algorithm tests for three variants

[13] this algorithm tests for three variants

[14] this algorithm tests for three variants

[15] this algorithm tests for three variants

[16] this algorithm tests for three variants

[17] this algorithm tests for three variants

[18] NOTE: This algorithm is the same like md5(mysql5($plain))

[19] bug in current MDXfind release for this algorithm. Fix is known but not released yet.

[20] this algorithm tests for two variants

[21] this algorithm tests for two
variants

[22] this algorithm tests for two
variants

[23] this algorithm tests for two
variants

[24] coming soon

[25] key = $salt

[26] key = $salt

[27] this algorithm tests for two
variants

[28] this algorithm tests for two variants

[29] this algorithm tests for two variants

[30] this algorithm tests for two variants

[31] this algorithm tests for two variants

[32] this algorithm tests for two variants

[33] this algorithm tests for two variants

[34] this algorithm tests for two variants

[35] just taking the userid as salt

[36] just taking the userid as salt

[37] this algorithm checks for five variants

[38] this algorithm checks for five variants

[39] this algorithm checks for five variants

[40] this algorithm checks for five variants

[41] this algorithm checks for five variants

[42] this algorithm checks for three variants

[43] this algorithm checks for three variants

[44] this algorithm checks for three variants

[45] this algorithm checks for five variants

[46] this algorithm checks for five variants

[47] this algorithm checks for five variants

[48] this algorithm checks for five variants

[49] this algorithm checks for five variants

[50] this algorithm checks for five variants

[51] this algorithm checks for five variants

[52] this algorithm checks for five variants

[53] this algorithm checks for five variants

[54] this algorithm checks for five variants

[55] this algorithm checks for two variants

[56] this algorithm checks for two variants

[57] bug in current MDXfind release for this algorithm. Fix is known but not released yet.

[58] bug in current MDXfind release for this algorithm. Fix is known but not released yet.

[59] bug in current MDXfind release for this algorithm. Fix is known but not released yet.

[60] this algorithm checks for five variants

[61] this algorithm checks for five variants

[62] this algorithm checks for five variants

[63] this algorithm checks for five variants

[64] this algorithm checks for five variants

[65] this algorithm checks for two variants

[66] this algorithm checks for two variants

[67] this algorithm checks for five variants

[68] this algorithm checks for five variants

[69] this algorithm checks for five variants

[70] this algorithm checks for five variants

[71] this algorithm checks for five variants

[72] this algorithm tests as many combinations as chars in the plain (up to 8)

[73] this algorithm tests as many combinations as chars in the plain (up to 8)

[74] this algorithm tests as many combinations as chars in the plain (up to 8)

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[79] this algorithm tests as many combinations as chars in the plain (up to 8)

[80] bug in current MDXfind release for this algorithm. Fix is known but not released yet.

[81] this algorithm tests for eight variants

[82] this algorithm tests for eight variants

[83] this algorithm tests for eight variants

[84] this algorithm tests for eight variants

[85] this algorithm tests for eight variants

[86] this algorithm tests for eight variants

[87] this algorithm tests for eight variants

[88] this algorithm tests for eight variants

[89] this algorithm tests for five variants

[90] this algorithm tests for five variants

[91] this algorithm tests for five variants

[92] this algorithm tests for five variants

[93] this algorithm tests for five variants

[94] this algorithm tests for five variants

[95] this algorithm tests for five variants

[96] this algorithm tests for five variants

[97] this algorithm tests for five variants

[98] this algorithm tests for five variants

[99] this algorithm tests for five variants

[100] this algorithm tests for five variants

[101] this algorithm tests for five variants

[102] this algorithm tests for five variants

[103] this algorithm tests for five variants

[104] NOTE: RO13 is not the ROT modification from hashes.org

[105] this algorithm tests for three variants

[106] this algorithm tests for three variants

[107] this algorithm tests for three variants

[108] this algorithm tests for three variants

[109] this algorithm tests for three variants

[110] this algorithm tests for three variants

[111] note that CAP might not have any effect

[112] this algorithm tests for two variants

[113] this algorithm tests for two variants

[114] this algorithm tests for two variants

[115] this algorithm tests for two variants

[116] this algorithm tests for two variants

[117] this algorithm tests for two variants

[118] NOTE: the number in the salt denotes how many times MD5 is applied, but this would lead to other algorithms on hashes.org

[119] this algorithm tests for 16 variations

[120] NOTE: the variations appear to use different combinations of salts with blank characters, such as newlines, carriage return characters and NULLs

[121] this algorithm tests for 16 variations

[122] NOTE: the variations appear to use different combinations of salts with blank characters, such as newlines, carriage return characters and NULLs

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[140] NOTE: the variations appear to use different combinations of salts with blank characters, such as newlines, carriage return characters and NULLs

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[148] NOTE: the variations appear to use different combinations of salts with blank characters, such as newlines, carriage return characters and NULLs

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[150] NOTE: the variations appear to use different combinations of salts with blank characters, such as newlines, carriage return characters and NULLs