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Example hashes

If you get a “line length exception” error in hashcat, it is often because the hash mode that you have requested does not match the hash. To verify, you can test your commands against example hashes.

Unless otherwise noted, the password for all example hashes is **hashcat**.

Generic hash types

Hash-Mode	Hash-Name	Example
0	MD5	8743b52063cd84097a65d1633f5c74f5
10	md5($pass.$salt)	01dfae6e5d4d90d9892622325959afbe:7050461
20	md5($salt.$pass)	f0fda58630310a6dd91a7d8f0a4ceda2:4225637426
30	md5(utf16le($pass).$salt)	b31d032cfdcf47a399990a71e43c5d2a:144816
40	md5($salt.utf16le($pass))	d63d0e21fdc05f618d55ef306c54af82:13288442151473
50	HMAC-MD5 (key = $pass)	fc741db0a2968c39d9c2a5cc75b05370:1234
60	HMAC-MD5 (key = $salt)	bfd280436f45fa38eaacac3b00518f29:1234
100	SHA1	b89eaac7e61417341b710b727768294d0e6a277b
110	sha1($pass.$salt)	2fc5a684737ce1bf7b3b239df432416e0dd07357:2014
120	sha1($salt.$pass)	cac35ec206d868b7d7cb0b55f31d9425b075082b:5363620024
130	sha1(utf16le($pass).$salt)	c57f6ac1b71f45a07dbd91a59fa47c23abcd87c2:631225
140	sha1($salt.utf16le($pass))	5db61e4cd8776c7969cfd62456da639a4c87683a:8763434884872
150	HMAC-SHA1 (key = $pass)	c898896f3f70f61bc3fb19bef222aa860e5ea717:1234
160	HMAC-SHA1 (key = $salt)	d89c92b4400b15c39e462a8caa939ab40c3aeeea:1234
200	MySQL323	7196759210defdc0
300	MySQL4.1/MySQL5	fcf7c1b8749cf99d88e5f34271d636178fb5d130
400	phpass, WordPress (MD5), Joomla (MD5)	P984478476IagS59wHZvyQMArzfx58u.
400	phpass, phpBB3 (MD5)	H984478476IagS59wHZvyQMArzfx58u.
500	md5crypt, MD5 (Unix), Cisco-IOS 1 (MD5) [2]	$1$28772684$iEwNOgGugqO9.bIz5sk8k/
501	Juniper IVE	3u+UR6n8AgABAAAAHxxdXKmiOmUoqKnZlf8lTOhlPYy93EAkbPfs5+49YLFd/B1+omSKbW7DoqNM40/EeVnwJ8kYoXv9zy9D5C5m5A==
600	BLAKE2b-512	$BLAKE2$296c269e70ac5f0095e6fb47693480f0f7b97ccd0307f5c3bfa4df8f5ca5c9308a0e7108e80a0a9c0ebb715e8b7109b072046c6cd5e155b4cfd2f27216283b1e
900	MD4	afe04867ec7a3845145579a95f72eca7
1000	NTLM	b4b9b02e6f09a9bd760f388b67351e2b
1100	Domain Cached Credentials (DCC), MS Cache	4dd8965d1d476fa0d026722989a6b772:3060147285011
1300	SHA-224	e4fa1555ad877bf0ec455483371867200eee89550a93eff2f95a6198
1400	SHA-256	127e6fbfe24a750e72930c220a8e138275656b8e5d8f48a98c3c92df2caba935
1410	sha256($pass.$salt)	c73d08de890479518ed60cf670d17faa26a4a71f995c1dcc978165399401a6c4:53743528
1420	sha256($salt.$pass)	eb368a2dfd38b405f014118c7d9747fcc97f4f0ee75c05963cd9da6ee65ef498:560407001617
1430	sha256(utf16le($pass).$salt)	4cc8eb60476c33edac52b5a7548c2c50ef0f9e31ce656c6f4b213f901bc87421:890128
1440	sha256($salt.utf16le($pass))	a4bd99e1e0aba51814e81388badb23ecc560312c4324b2018ea76393ea1caca9:12345678
1450	HMAC-SHA256 (key = $pass)	abaf88d66bf2334a4a8b207cc61a96fb46c3e38e882e6f6f886742f688b8588c:1234
1460	HMAC-SHA256 (key = $salt)	8efbef4cec28f228fa948daaf4893ac3638fbae81358ff9020be1d7a9a509fc6:1234
1500	descrypt, DES (Unix), Traditional DES	48c/R8JAv757A
1600	Apache $apr1$ MD5, md5apr1, MD5 (APR) [2]	$apr1$71850310$gh9m4xcAn3MGxogwX/ztb.
1700	SHA-512	82a9dda829eb7f8ffe9fbe49e45d47d2dad9664fbb7adf72492e3c81ebd3e29134d9bc12212bf83c6840f10e8246b9db54a4859b7ccd0123d86e5872c1e5082f
1710	sha512($pass.$salt)	e5c3ede3e49fb86592fb03f471c35ba13e8d89b8ab65142c9a8fdafb635fa2223c24e5558fd9313e8995019dcbec1fb584146b7bb12685c7765fc8c0d51379fd:6352283260
1720	sha512($salt.$pass)	976b451818634a1e2acba682da3fd6efa72adf8a7a08d7939550c244b237c72c7d42367544e826c0c83fe5c02f97c0373b6b1386cc794bf0d21d2df01bb9c08a:2613516180127
1730	sha512(utf16le($pass).$salt)	13070359002b6fbb3d28e50fba55efcf3d7cc115fe6e3f6c98bf0e3210f1c6923427a1e1a3b214c1de92c467683f6466727ba3a51684022be5cc2ffcb78457d2:341351589
1740	sha512($salt.utf16le($pass))	bae3a3358b3459c761a3ed40d34022f0609a02d90a0d7274610b16147e58ece00cd849a0bd5cf6a92ee5eb5687075b4e754324dfa70deca6993a85b2ca865bc8:1237015423
1750	HMAC-SHA512 (key = $pass)	94cb9e31137913665dbea7b058e10be5f050cc356062a2c9679ed0ad6119648e7be620e9d4e1199220cd02b9efb2b1c78234fa1000c728f82bf9f14ed82c1976:1234
1760	HMAC-SHA512 (key = $salt)	7cce966f5503e292a51381f238d071971ad5442488f340f98e379b3aeae2f33778e3e732fcc2f7bdc04f3d460eebf6f8cb77da32df25500c09160dd3bf7d2a6b:1234
1800	sha512crypt 6, SHA512 (Unix) [2]	$6$52450745$k5ka2p8bFuSmoVT1tzOyyuaREkkKBcCNqoDKzYiJL9RaE8yMnPgh2XzzF0NDrUhgrcLwg78xs1w5pJiypEdFX/
2000	STDOUT	n/a
2100	Domain Cached Credentials 2 (DCC2), MS Cache 2	$DCC2$10240#tom#e4e938d12fe5974dc42a90120bd9c90f
2400	Cisco-PIX MD5	dRRVnUmUHXOTt9nk
2410	Cisco-ASA MD5	02dMBMYkTdC5Ziyp:36
2500	WPA/WPA2 [1]	https://hashcat.net/misc/example_hashes/hashcat.hccapx [https://hashcat.net/misc/example_hashes/hashcat.hccapx]
2501	WPA/WPA2 PMK [14]	https://hashcat.net/misc/example_hashes/hashcat-pmk.hccapx [https://hashcat.net/misc/example_hashes/hashcat-pmk.hccapx]
2600	md5(md5($pass))	a936af92b0ae20b1ff6c3347a72e5fbe
3000	LM	299bd128c1101fd6
3100	Oracle H: Type (Oracle 7+), DES(Oracle)	7A963A529D2E3229:3682427524

Hash-Mode	Hash-Name	Example
3200	bcrypt $2*$, Blowfish (Unix)	$2a$05$LhayLxezLhK1LhWvKxCyLOj0j1u.Kj0jZ0pEmm134uzrQlFvQJLF6
3710	md5($salt.md5($pass))	95248989ec91f6d0439dbde2bd0140be:1234
3800	md5($salt.$pass.$salt)	2e45c4b99396c6cb2db8bda0d3df669f:1234
3910	md5(md5($pass).md5($salt))	250920b3a5e31318806a032a4674df7e:1234
4010	md5($salt.md5($salt.$pass))	30d0cf4a5d7ed831084c5b8b0ba75b46:1234
4110	md5($salt.md5($pass.$salt))	b4cb5c551a30f6c25d648560408df68a:1234
4300	md5(strtoupper(md5($pass)))	b8c385461bb9f9d733d3af832cf60b27
4400	md5(sha1($pass))	288496df99b33f8f75a7ce4837d1b480
4500	sha1(sha1($pass))	3db9184f5da4e463832b086211af8d2314919951
4520	sha1($salt.sha1($pass))	a0f835fdf57d36ebd8d0399cc44e6c2b86a1072b:5113582143527516672011070735317352115666507473 15
4700	sha1(md5($pass))	92d85978d884eb1d99a51652b1139c8279fa8663
4710	sha1(md5($pass).$salt) *	53c724b7f34f09787ed3f1b316215fc35c789504:hashcat1
4800	iSCSI CHAP authentication, MD5(CHAP) 7	afd09efdd6f8ca9f18ec77c5869788c3:01020304050607080910111213141516:01
4900	sha1($salt.$pass.$salt)	85087a691a55cbb41ae335d459a9121d54080b80:488387841
5100	Half MD5	8743b52063cd8409
5200	Password Safe v3	https://hashcat.net/misc/example_hashes/hashcat.psafe3 [https://hashcat.net/misc/example_hashes/hashcat.psafe3]
5300	IKE-PSK MD5	https://hashcat.net/misc/example_hashes/hashcat.ikemd5 [https://hashcat.net/misc/example_hashes/hashcat.ikemd5]
5400	IKE-PSK SHA1	https://hashcat.net/misc/example_hashes/hashcat.ikesha1 [https://hashcat.net/misc/example_hashes/hashcat.ikesha1]
5500	NetNTLMv1 / NetNTLMv1+ESS	u4-netntlm::kNS:338d08f8e26de93300000000000000000000000000000000:9526fb8c23a90751cdd619b6cea564742e1e4bf33006ba41:cb8086049ec4736c
5600	NetNTLMv2	admin::N46iSNekpT:08ca45b7d7ea58ee:88dcbe4446168966a153a0064958dac6:5c7830315c7830310000000000000b45c67103d07d7b95acd12ffa11230e0000000052920b85f78d013c31cdb3b
5700	Cisco-IOS type 4 (SHA256)	2btjjy78REtmYkkW0csHUbJZOstRXoWdX1mGrmmfeHI
5800	Samsung Android Password/PIN	0223b799d526b596fe4ba5628b9e65068227e68e:f6d45822728ddb2c
6000	RIPEMD-160	012cb9b334ec1aeb71a9c8ce85586082467f7eb6
6100	Whirlpool	7ca8eaaaa15eaa4c038b4c47b9313e92da827c06940e69947f85bc0fbef3eb8fd254da220ad9e208b6b28f6bb9be31dd760f1fdb26112d83f87d96b416a4d258
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes.tc]
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent.tc]
6211	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish.tc]
6213	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes.tc]
6213	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes.tc]
6212	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent.tc]
6221	TrueCrypt 5.0+ SHA512 + AES	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes.tc]
6221	TrueCrypt 5.0+ SHA512 + Serpent	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent.tc]
6221	TrueCrypt 5.0+ SHA512 + Twofish	https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish.tc]
6222	TrueCrypt 5.0+ SHA512 + AES-Twofish	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish.tc]
6223	TrueCrypt 5.0+ SHA512 + AES-Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_aes-twofish-serpent.tc]
6222	TrueCrypt 5.0+ SHA512 + Serpent-AES	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-aes.tc]
6223	TrueCrypt 5.0+ SHA512 + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_serpent-twofish-aes.tc]
6222	TrueCrypt 5.0+ SHA512 + Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_sha512_twofish-serpent.tc]
6231	TrueCrypt 5.0+ Whirlpool + AES	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes.tc]
6231	TrueCrypt 5.0+ Whirlpool + Serpent	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent.tc]
6231	TrueCrypt 5.0+ Whirlpool + Twofish	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish.tc]
6232	TrueCrypt 5.0+ Whirlpool + AES-Twofish	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish.tc]
6233	TrueCrypt 5.0+ Whirlpool + AES-Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_aes-twofish-serpent.tc]
6232	TrueCrypt 5.0+ Whirlpool + Serpent-AES	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-aes.tc]
6233	TrueCrypt 5.0+ Whirlpool + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-twofish-aes.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_serpent-twofish-aes.tc]
6232	TrueCrypt 5.0+ Whirlpool + Twofish-Serpent	https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish-serpent.tc [https://hashcat.net/misc/example_hashes/hashcat_whirlpool_twofish-serpent.tc]
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes_boot.tc]
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent_boot.tc]

Hash-Mode	Hash-Name	Example
6241	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish_boot.tc]
6243	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + AES-Twofish-Serpent + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_aes-twofish-serpent_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-AES + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-aes_boot.tc]
6243	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_serpent-twofish-aes_boot.tc]
6242	TrueCrypt 5.0+ PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent + boot	https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent_boot.tc [https://hashcat.net/misc/example_hashes/hashcat_ripemd160_twofish-serpent_boot.tc]
6300	AIX {smd5}	{smd5}a5/yTL/u$VfvgyHx1xUIXZYBocQpQY0
6400	AIX {ssha256}	{ssha256}06$aJckFGJAB30LTe10$ohUsB7LBPlgclE3hJg9x042DLJvQyxVCX.nZZLEz.g2
6500	AIX {ssha512}	{ssha512}06$bJbkFGJAB30L2e23$bXiXjyH5YGIyoWWmEVwq67nCU5t7GLy9HkCzrodRCQCx3r9VvG98o7O3V0r9cVrX3LPPGuHqT5LLn0oGCuI1..
6600	1Password, agilekeychain	https://hashcat.net/misc/example_hashes/hashcat.agilekeychain [https://hashcat.net/misc/example_hashes/hashcat.agilekeychain]
6700	AIX {ssha1}	{ssha1}06$bJbkFGJAB30L2e23$dCESGOsP7jaIAJ1QAcmaGeG.kr
6800	LastPass + LastPass sniffed[4]	a2d1f7b7a1862d0d4a52644e72d59df5:500:lp@trash-mail.com
6900	GOST R 34.11-94	df226c2c6dcb1d995c0299a33a084b201544293c31fc3d279530121d36bbcea9
7000	FortiGate (FortiOS)	AK1AAECAwQFBgcICRARNGqgeC3is8gv2xWWRony9NJnDgE=
7100	OSX v10.8+ (PBKDF2-SHA512)	ml35460$93a94bd24b5de64d79a5e49fa372827e739f4d7b6975c752c9a0ff1e5cf72e05$752351df64dd2ce9dc9c64a72ad91de6581a15c19176266b44d98919dfa81f0f96cbcb20a1ffb400718c2(
7200	GRUB 2	grub.pbkdf2.sha512.10000.7d391ef48645f626b427b1fae06a7219b5b54f4f02b2621f86b5e36e83ae492bd1db60871e45bc07925cecb46ff8ba3db31c723c0c6acbd4f06f60c5b246ecbf.26d59c52b5
7300	IPMI2 RAKP HMAC-SHA1	b7c2d6f13a43dce2e44ad120a9cd8a13d0ca23f0414275c0bbe1070d2d1299b1c04da0f1a0f1e4e2537300263a2200000000000000000000014076861736863617 4:472bdabe2d5d4bffd6add7b3ba7
7400	sha256crypt 5, SHA256 (Unix) [2]	5rounds=5000$GX7BopJZJxPc/KEK$le16UF8I2Anb.rOrn22AUPWvzUETDGefUmAV8AZkGcD
7500	Kerberos 5 AS-REQ Pre-Auth etype 23	$krb5pa$23$user$realm$salt$4e751db65422b2117f7eac7b721932dc8aa0d9966785ecd958f971f622bf5c42dc0c70b5323631383636313631323233238383835
7700	SAP CODVN B (BCODE)	USER$C8B48F26B87B7EA7
7701	SAP CODVN B (BCODE) mangled from RFC_READ_TABLE	027642760180$77EC386300000000
7800	SAP CODVN F/G (PASSCODE)	USER$ABCAD719B17E7F794DF7E686E563E9E2D24DE1D0
7801	SAP CODVN F/G (PASSCODE) mangled from RFC_READ_TABLE	604020408266$32837BA7B97672BA4E5A00000000000000000000
7900	Drupal7	SC33783772bRXEx1aCsvY.dqgaaSu76XmVlKrW9Qu8lQlvxHlmzLf
8000	Sybase ASE	0xc0077816838863142823054 5ed2c976790af96768afa0806fe6c0da3b28f3e132137eac56f9bad027ea2
8100	Citrix NetScaler	1765058016a22f1b4e076dccd1c3df4e8e5c0839ccded98ea
8200	1Password, cloudkeychain	https://hashcat.net/misc/example_hashes/hashcat.cloudkeychain [https://hashcat.net/misc/example_hashes/hashcat.cloudkeychain]
8300	DNSSEC (NSEC3)	7b5n74kq8r441blc2c5qbbat19baj79r:.lvdsiqfj.net:33164473:1
8400	WBB3 (Woltlab Burning Board)	8084df19a6dc81e2597d051c3d8b400787e2d5a9:67550453154248521851153527653753388386 43
8500	RACF	$racf$*USER*FC2577C6EBE6265B
8600	Lotus Notes/Domino 5	3dd2e1e5ac03e230243d58b8c5ada076
8700	Lotus Notes/Domino 6	(GDpOtD35gGlyDksQRxEU)
8800	Android FDE <= 4.3	https://hashcat.net/misc/example_hashes/hashcat.android43fde [https://hashcat.net/misc/example_hashes/hashcat.android43fde]
8900	scrypt	SCRYPT:1024:1:1:MDIwMzMwNTQwNDQyNQ==:5FW+zWivLxgCWj7qLiQbeC8zaNQ+qdO0NUinvqyFcfo=
9000	Password Safe v2	https://hashcat.net/misc/example_hashes/hashcat.psafe2.dat [https://hashcat.net/misc/example_hashes/hashcat.psafe2.dat]
9100	Lotus Notes/Domino 8	(HsjFebq0Kh9kH7aAZYc7kY30mC30mC3KmC30mCluagXrvWKj1)
9200	Cisco-IOS 8 (PBKDF2-SHA256)	8TnGX/fE4KGHOVU$pEhnEvxrvaynpi8j4f.EMHr6M.FzU8xnZnBr/tJdFWk
9300	Cisco-IOS 9 (scrypt)	$9$2MJBozw/9R3UsU$2lFhcKvpghcyw8deP25GOfyZaagyUOGBymkryvOdfo6
9400	MS Office 2007	$office$*2007*20*128*16*411a51284e0d0200b131a8949aaaa5cc*117d532441c63968bee7647d9b7df7d6*df1d601ccf905b375575108f42ef838fb88e1cde
9500	MS Office 2010	$office$*2010*100000*128*16*772332010172777882672210147572 62*b2d0ca4854ba19cf95a2647d5eee906c*e30cbbb189575cafb6f142a90c2622fa9e78d293c5b0c001517b3f5b82993557
9600	MS Office 2013	$office$*2013*100000*256*16*7dd611d7eb4c899f74816d1dec817b3b*948dc0b2c2c6c32f14b5995a543ad037*0b7ee0e48e935f937192a59de48a7d561ef2691d5c8a3ba87ec2d04402a94895
9700	MS Office ⇐ 2003 MD5 + RC4, oldoffice$0, oldoffice$1	$oldoffice$1*04477077758555626246182730342136*b1b72ff351e41a7c68f6b45c4e938bd6*0d95331895e99f73ef8b6fbc4a78ac1a
9710	MS Office ⇐ 2003 $0/$1, MD5 + RC4, collider #1	$oldoffice$0*55045061647456688860411218030058*e7e24d163fbd743992d4b8892bf3f2f7*493410dbc832557d3fe1870ace8397e2
9720	MS Office ⇐ 2003 $0/$1, MD5 + RC4, collider #2	$oldoffice$0*55045061647456688860411218030058*e7e24d163fbd743992d4b8892bf3f2f7*493410dbc832557d3fe1870ace8397e2:91b2e062b9
9800	MS Office ⇐ 2003 SHA1 + RC4, oldoffice$3, oldoffice$4	$oldoffice$3*83328705222323020515404251156288*2855956a165ff6511bc7f4cd77b9e101*941861655e73a09c40f7b1e9dfd0c256ed285acd
9810	MS Office ⇐ 2003 $3, SHA1 + RC4, collider #1	$oldoffice$3*83328705222323020515404251156288*2855956a165ff6511bc7f4cd77b9e101*941861655e73a09c40f7b1e9dfd0c256ed285acd
9820	MS Office ⇐ 2003 $3, SHA1 + RC4, collider #2	$oldoffice$3*83328705222323020515404251156288*2855956a165ff6511bc7f4cd77b9e101*941861655e73a09c40f7b1e9dfd0c256ed285acd:b8f63619ca
9900	Radmin2	22527bee5c29ce95373c4e0f359f079b
10000	Django (PBKDF2-SHA256)	pbkdf2_sha256$20000$H0dPx8NeajVu$GiC4k5kqbbR9qWBlsRgDywNqC2vd9kqfk7zdorEnNas=
10100	SipHash	ad61d78c06037cd9:2:4:81533218127174468417660201434054
10200	CRAM-MD5	$cram_md5$PG5vLXJlcGx5QGhhc2hjYXQubmV0Pg==$dXNlciA0NGVhZmQyMmZlNzY2NzBmNmIyODc5MDgxYTdmNWY3MQ==
10300	SAP CODVN H (PWDSALTEDHASH) iSSHA-1	{x-issha, 1024}C0624EvGSdAMCtuWnBBYBGA0chvqAflKY74oEpw/rpY=
10400	PDF 1.1 - 1.3 (Acrobat 2 - 4)	pdf1*2*40*-1*0*16*5172643728045282651147325574437 4*32*9b09be05c226214fa1178342673d86f273602b95104f2384b6c9b709b2cbc058*32*0000000000000000000000000000000000000(
10410	PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #1	pdf1*2*40*-1*0*16*0122108674144084166837105610322 2*32*27c3fecef6d46a78eb61b8b4dbc690f5f8a2912bbb9afc842c12d79481568b74*32*0000000000000000000000000000000000000(

Hash-Mode	Hash-Name	Example
10420	PDF 1.1 - 1.3 (Acrobat 2 - 4), collider #2	pdf1*2*40*-1*0*16*012210867414408416683710561032222*32*27c3fecef6d46a78eb61b8b4dbc690f5f8a2912bbb9afc842c12d79481568b74*32*0000000000000000000000000000000000000000
10500	PDF 1.4 - 1.6 (Acrobat 5 - 8)	pdf2*3*128*-1028*1*16*da42ee15d4b3e08fe5b9ecea0e02ad0f*32*c9b59d72c7c670c42eeb4fca1d2ca1500000000000000000000000000000000*32*c4ff3e868dc87604626c2b8c259297a14
10600	PDF 1.7 Level 3 (Acrobat 9)	pdf5*5*256*-1028*1*16*205838144021842268664853327543 15*127*f95d927a94829db8e2fbfbc9726ebe0a391b22a084ccc2882eb107a74f7884812058381440218422686648533275431500
10700	PDF 1.7 Level 8 (Acrobat 10 - 11)	pdf5*6*256*-1028*1*16*21240790753544575679622633641532*127*2d1ecff66ea354d3d34325a6503da57e03c199c21b13dd842f8d515826054d8d21240790753544575679622633641532
10800	SHA-384	07371af1ca1fca7c6941d2399f3610f1e392c56c6d73fddffe38f18c430a2817028dae1ef09ac683b62148a2c8757f42
10900	PBKDF2-HMAC-SHA256	sha256:1000:MTc3MTA0MTQwMjQxNzY=:PYjCU215Mi57AYPKva9j7mvF4Rc5bCnt
11000	PrestaShop	810e3d12f0f10777a679d9ca1ad7a8d9:M2uZ122bSHJ4Mi54tXGY0lqcv1r28mUluSkyw37ou5oia4i239ujqw0l
11100	PostgreSQL CRAM (MD5)	$postgres$postgres*f0784ea5*2091bb7d4725d1ca85e8de6ec349baf6
11200	MySQL CRAM (SHA1)	$mysqlna$1c24ab8d0ee94d70ab1f2e814d8f0948a14d10b9*437e93572f18ae44d9e779160c2505271f85821d
11300	Bitcoin/Litecoin wallet.dat	$bitcoin$96$d011a1b6a8d675b7a36d0cd2efaca32a9f8dc1d57d6d01a58399ea04e703e8bbb44899039326f7a00f171a7bbc854a54$16$1563277210780230$158555$96$6288354268182272433
11400	SIP digest authentication (MD5)	sip*192.168.100.100*192.168.100.121*username*asterisk*REGISTER*sip*192.168.100.121**2b01df0b****MD5*ad0520061ca07c120d7e8ce696a6df2d
11500	CRC32 [5]	c762de4a:00000000
11600	7-Zip	$7z$0$19$0$salt$8$f6196259a7326e3f00000000000000000$185065650$112$98$f3bc2a88062c419a25acd40c0c2d75421cf23263f69c51b13f9b1aada41a8a09f9adeae45d67c60b56aad338f20c
11700	GOST R 34.11-2012 (Streebog) 256-bit	57e9e50caec93d72e9498c211d6dc4f4d328248b48ecf46ba7abfa874f666e36
11750	HMAC-Streebog-256 (key = $pass), big-endian	0f71c7c82700c9094ca95eee3d804cc283b538bec49428a9ef8da7b34effb3ba:08151337
11760	HMAC-Streebog-256 (key = $salt), big-endian	d5c6b874338a492ac57ddc6871afc3c70dcfd264185a69d84cf839a07ef92b2c:08151337
11800	GOST R 34.11-2012 (Streebog) 512-bit	5d5bdba48c8f89ee6c0a0e11023540424283e84902de08013aeeb626e819950bb32842903593a1d2e8f71897ff7fe72e17ac9ba8ce1d1d2f7e9c4359ea63bdc3
11850	HMAC-Streebog-512 (key = $pass), big-endian	be4555415af4a05078dcf260bb3c0a35948135df3dbf93f7c8b80574ceb0d71ea4312127f839b7707bf39ccc932d9e7cb799671183455889e8dde3738dfab5b6:08151337
11860	HMAC-Streebog-512 (key = $salt), big-endian	bebf6831b3f9f958acb345a88cb98f30cb0374cff13e6012818487c8dc8d5857f23bca2caed280195ad558b8ce393503e632e901e8d1eb2ccb349a544ac195fd:08151337
11900	PBKDF2-HMAC-MD5	md5:1000:MTg1MzA=:Lz84VOcrXd699Edsj34PP98+f4f3S0rTZ4kHAIHoAjs=
12000	PBKDF2-HMAC-SHA1	sha1:1000:MzU4NTA4MzIzNzA1MDQ=:19ofiY+ahBXhvkDsp0j2ww==
12100	PBKDF2-HMAC-SHA512	sha512:1000:ODQyMDEwNjQyODY=:MKaHNWXUsuJB3IEwBHbm3w==
12200	eCryptfs	$ecryptfs$0$1$7c95c46e82f364b3$60bba503f0a42d0c
12300	Oracle T: Type (Oracle 12+)	78281A9C0CF626BD05EFC4F41B515B61D6C4D95A250CD4A605CA0EF97168D670EBCB5673B6F5A2FB9CC4E0C0101E659C0C4E3B9B3BEDA846CD15508E88685A2334141655046766
12400	BSDiCrypt, Extended DES	_9G..8147mpcfKT8g0U.
12500	RAR3-hp	$RAR3$*0*45109af8ab5f297a*adbf6c5385d7a40373e8f77d7b89d317
12600	ColdFusion 10+	aee9edab5653f509c4c63e559a5e967b4c112273bc6bd84525e630a3f9028dcb:513625686678377733457478378281041070688323332114164726534046273 3
12700	Blockchain, My Wallet	$blockchain$288$542005582723173071030134867080233 5e45a6f5f631113cb1148a6e96ce645ac69881625a115fd35256636d0908217182f89bdd53256a764e3552d3bfe68624f4f89bb6de60687
12800	MS-AzureSync PBKDF2-HMAC-SHA256	v1;PPH1_MD4,84840328224366186645,100,005a491d8bf3715085d69f934eef7fb19a15ffc233b5382d9827910bc32f3506
12900	Android FDE (Samsung DEK)	384218541184126257684081604771123842185411841262576840816047711 29b6258eb22fc8b9d08e04e6450f72b98725d7d4fcad6fb6aec4ac2a79d0c6ff7384218541184126257684081604771
13000	RAR5	$rar5$16$74575567518807622265582327032280$15$f8b4064de34ac02ecabfe9abdf93ed6a$8$9843834ed0f7c754
13100	Kerberos 5 TGS-REP etype 23	$krb5tgs$23$*user$realm$test/spn*$63386d22d359fe42230300d56852c9eb$891ad31d09ab89c6b3b8c5e5de6c06a7f49fd559d7a9a3c32576c8fedf705376cea582ab5938f7fc8bc741acf05c5990
13200	AxCrypt	$axcrypt$*1*10000*aaf4a5b4a7185551fea2585ed69fe246*45c616e901e48c6cac7ff14e8cd99113393be259c595325e
13300	AxCrypt in-memory SHA1 [13]	$axcrypt_sha1$b89eaac7e61417341b710b727768294d0e6a277b
13400	KeePass 1 AES / without keyfile	$keepass$*1*50000*0*375756b9e6c72891a8e5645a3338b8c8*82afc053e8e1a6cfa39adae4f5fe5e59f545a54d6956593d1709b39cacd7f796*c698fbfc7d1b71431d10611e2216ab21*24a63140f4e
13400	KeePass 2 AES / without keyfile	$keepass$*2*6000*222*a279e37c38b0124559a83fa452a0269d56dc4119a5866d18e76f1f3fd536d64d*7ec7a06bc975ea2ae7c8dcb99e826a308564849b6b25d858cbbc78475af3733f*d477c849b
13400	KeePass 1 Twofish / with keyfile	$keepass$*1*6000*1*31c087828b0bb76362c10cae773aacdf*6d6c78b4f82ecbcd3b96670cf490914c25ea8c31bc3aeb3fc56e65fac16d721f*a735ec88c01816bc66200c8e17ee9110*08334be8523
13400	Keepass 2 AES / with keyfile	$keepass$*2*6000*222*15b6b685bae998f2f608c909dc554e514f2843fbac3c7c16ea3600cc0de30212*c417098b445cfc7a87d56ba17200836f30208d38f75a4169c0280bab3b10ca2a*0d15a81eac
13500	PeopleSoft PS_TOKEN	b5e335754127b25ba6f99a94c738e24cd634c35a:aa07d396f5038a6cbeded88d78d1d6c907e4079b3dc2e12fddee409a51cc05ae73e8cc24d518c923a2f79e49376594503e6238b806bfe33fa8516
13600	WinZip	$zip2$*0*3*0*e3222d3b65b5a2785b192d31e39ff9de*1320*e*19648c3e063c82a9ad3ef08ed833*3135c79ecb86cd6f48fc*$/zip2$
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_13711.vc]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + AES-Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_13712.vc]
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent_13711.vc]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-aes_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-aes_13712.vc]
13713	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-twofish-aes_13713.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_serpent-twofish-aes_13713.vc]
13711	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish_13711.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish_13711.vc]
13712	VeraCrypt PBKDF2-HMAC-RIPEMD160 + Twofish-Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish-serpent_13712.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_twofish-serpent_13712.vc]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_13751.vc]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + AES-Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes-twofish_13752.vc]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent_13751.vc]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_13752.vc]
13753	VeraCrypt PBKDF2-HMAC-SHA256 + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_13753.vc]
13751	VeraCrypt PBKDF2-HMAC-SHA256 + Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_13751.vc]
13752	VeraCrypt PBKDF2-HMAC-SHA256 + Twofish-Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish-serpent_13752.vc]

Hash-Mode	Hash-Name	Example
13721	VeraCrypt PBKDF2-HMAC-SHA512 + AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes_13721.vc]
13722	VeraCrypt PBKDF2-HMAC-SHA512 + AES-Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_aes-twofish_13722.vc]
13721	VeraCrypt PBKDF2-HMAC-SHA512 + Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent_13721.vc]
13722	VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-aes_13722.vc]
13723	VeraCrypt PBKDF2-HMAC-SHA512 + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-twofish-aes_13723.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_serpent-twofish-aes_13723.vc]
13721	VeraCrypt PBKDF2-HMAC-SHA512 + Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish_13721.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish_13721.vc]
13722	VeraCrypt PBKDF2-HMAC-SHA512 + Twofish-Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish-serpent_13722.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha512_twofish-serpent_13722.vc]
13731	VeraCrypt PBKDF2-HMAC-Whirlpool + AES	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes_13731.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes_13731.vc]
13732	VeraCrypt PBKDF2-HMAC-Whirlpool + AES-Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes-twofish_13732.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_aes-twofish_13732.vc]
13731	VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent_13731.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent_13731.vc]
13732	VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-aes_13732.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-aes_13732.vc]
13733	VeraCrypt PBKDF2-HMAC-Whirlpool + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-twofish-aes_13733.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_serpent-twofish-aes_13733.vc]
13731	VeraCrypt PBKDF2-HMAC-Whirlpool + Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish_13731.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish_13731.vc]
13732	VeraCrypt PBKDF2-HMAC-Whirlpool + Twofish-Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish-serpent_13732.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_whirlpool_twofish-serpent_13732.vc]
13741	VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes_boot.vc]
13742	VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES-Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish_boot.vc]
13743	VeraCrypt PBKDF2-HMAC-RIPEMD160 + boot-mode + AES-Twofish-Serpent	https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish-serpent_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_ripemd160_aes-twofish-serpent_boot.vc]
13761	VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Twofish	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_twofish_boot.vc]
13762	VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Serpent-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-aes_boot.vc]
13763	VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + Serpent-Twofish-AES	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_boot.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_serpent-twofish-aes_boot.vc]
13761	VeraCrypt PBKDF2-HMAC-SHA256 + boot-mode + PIM + AES [16]	https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_boot_pim500.vc [https://hashcat.net/misc/example_hashes/vc/hashcat_sha256_aes_boot_pim500.vc]
13771*	VeraCrypt Streebog-512 + XTS 512 bit	TBD
13772*	VeraCrypt Streebog-512 + XTS 1024 bit	TBD
13773*	VeraCrypt Streebog-512 + XTS 1536 bit	TBD
13800	Windows Phone 8+ PIN/password	95fc4680bcd2a5f25de3c580cbebadbbf256c1f0ff2e9329c58e36f8b914c11f:4471347156480581513210137061422464818088437334031753080747625028271635402815635172140161077854
13900	OpenCart	6e36dcfc6151272c797165fce21e68e7c7737e40:472433673
14000	DES (PT = $salt, key = $pass) [8]	a28bc61d44bb815c:1172075784504605
14100	3DES (PT = $salt, key = $pass) [9]	37387ff8d8dafe15:8152001061460743
14400	sha1(CX)	fd9149fb3ae37085dc6ed1314449f449fbf77aba:87740665218240877702
14600	LUKS [10]	https://hashcat.net/misc/example_hashes/hashcat_luks_testfiles.7z [https://hashcat.net/misc/example_hashes/hashcat_luks_testfiles.7z]
14700	iTunes backup < 10.0 [11]	$itunes_backup$*9*b8e3f3a970239b22ac199b622293fe4237b9d16e74bad2c3c3568cd1bd3c471615a6c4f867265642*10000*4542263740587424862267232255853830404566**
14800	iTunes backup >= 10.0 [11]	$itunes_backup$*10*8b715f516ff8e64442c478c2d9abb046fc6979ab079007d3dbcef3ddd84217f4c3db01362d88fa68*10000*2353363784073608264337337723324886300850*10000000*425b4
14900	Skip32 (PT = $salt, key = $pass) [12]	c9350366:44630464
15000	FileZilla Server >= 0.9.55	632c4952b8d9adb2c0076c13b57f0c934c80bdc14fc1b4c341c2e0a8fd97c4528729c7bd7ed1268016fc44c3c222445ebb880eca9a6638ea5df74696883a2978:060851631114805026640407240708
15100	Juniper/NetBSD sha1crypt	$sha1$15100$jiJDkz0E$E8C7RQAD3NetbSDz7puNAY.5Y2jr
15200	Blockchain, My Wallet, V2	$blockchain$v2$5000$288$06063152445005516247820607861028813ccf6dcc5793dc0c7a82dcd604c5c3e8d91bea9531e628c2027c56328380c87356f86ae88968f179c366da9f0f11b09492cea
15300	DPAPI master key file version 1 + local context	$DPAPImk$1*1*S-15-21-466364039-425773974-453930460-1925*des3*sha1*24000*b038489dee5ad04e3e3cab4d957258b5*208*cb9b5b7d96a0d2a00305ca403d3fd9c47c561e35b4b2cf3aebf
15400	ChaCha20	$chacha20$*0400000000000003*9*0200000000000001*4a4b4c4d4e4f5051*676e31b5ad612c2b
15500	JKS Java Key Store Private Keys (SHA1)	$jksprivk$*5A3AA3C3B7DD7571727E1725FB09953EF3BEDBD9*0867403720562514024857047678064085141322*81*C3*50DDD9F532430367905C9DE31FB1*test
15600	Ethereum Wallet, PBKDF2-HMAC-SHA256	$ethereum$p*262144*32383831373131303534383437373837363234373534373838313730343433735*06eae7ee0a4b9e8abc02c9990e3730827396e8531558ed15bb733faf12a44ce1*e6d5891c
15700	Ethereum Wallet, SCRYPT	$ethereum$s*262144*1*8*34363837373338383130353437363036373535303234303732353430343631308*8b58d9d15f579faba1cd13dd372faeb51718e7f70735de96f0bcb2ef4fb90278*8de566b
15900	DPAPI master key file version 2 + Active Directory domain context	$DPAPImk$2*2*S-15-21-423929668-478423897-489523715-1834*aes256*sha512*8000*740866e4105c77f800f02d367dd96699*288*ebc2907e16245dfe6c902ad4be70a079e62204c8a9474984
16000	Tripcode	pfaRCwDe0U
16100	TACACS+	$tacacs-plus$0$5fde8e68$4e13e8fb33df$c006
16200	Apple Secure Notes	ASN*1*20000*807711711052334810048500040850037*d04b17af7f6b184346aad3efefe8bec0987ee73418291a41
16300	Ethereum Pre-Sale Wallet, PBKDF2-HMAC-SHA256	$ethereum$w*e94a8e49deac2d62206bf9bfb7d2aaea7eb06c1a378cfc1ac056cc599a569793c0ecc40e6a0c242dee2812f06b644d70f43331b1fa2ce4bd6cbb9f62dd25b443235bdb4c1ffb222084c9
16400	CRAM-MD5 Dovecot	{CRAM-MD5}5389b33b9725e5657cb631dc50017ff1535ce4e2a1c414009126506fc4327d0d

Hash-Mode	Hash-Name	Example
16500	JWT (JSON Web Token)	eyJhbGciOiJIUzI1NiJ9.eyIzNDM2MzQyMCI6NTc2ODc1NDd9.f1nXZ3V_Hrr6ee-AFCTLaHRnrkiKmio2t3JqwL32guY
16600	Electrum Wallet (Salt-Type 1-3)	$electrum$1*44358283104603165383613672586868*c43a6632d9f59364f74c395a03d8c2ea
16700	FileVault 2	$fvde$1$16$84286044060108438487434858307513$20000$f1620ab93192112f0a23eea89b5d4df065661f974b704191
16800	WPA-PMKID-PBKDF2 [1]	2582a8281bf9d4308d6f5731d0e61c61*4604ba734d4e*89acf0e761f4*ed487162465a774bfba60eb603a39f3a
16801	WPA-PMKID-PMK [15]	2582a8281bf9d4308d6f5731d0e61c61*4604ba734d4e*89acf0e761f4
16900	Ansible Vault	$ansible$0*0*6b761adc6faeb0cc0bf197d3d4a4a7d3f1682e4b169cae8fa6b459b3214ed41e*426d313c5809d4a80a4b9bc7d4823070*d8bad190c7fbc7c3cb1c60a27abfb0ff59d6fb73178681c7454
17200	PKZIP (Compressed) *	$pkzip2$1*1*2*0*e3*1c5*eda7a8de*0*28*8*e3*eda7*5096*a9fc1f4e951c8fb3031a6f903e5f4e3211c8fdc4671547bf77f6f682afbfcc7475d83898985621a7af9bccd1349d1976500a68c48f630b7f22c
17210	PKZIP (Uncompressed) *	$pkzip2$1*1*2*0*1d1*1c5*eda7a8de*0*28*0*1d1*eda7*5096*1dea673da43d9fc7e2be1a1f4f664269fceb6cb88723a97408ae1fe07f774d31d1442ea8485081e63f919851ca0b7588d5e3442317fff1
17220	PKZIP (Compressed Multi-File) *	$pkzip2$3*1*1*0*8*24*a425*8827*d1730095cd829e245df04ebba6c52c0573d49d3bbeab6cb385b7fa8a28dcccd3098bfdd7*1*0*8*24*2a74*882a*51281ac874a60baedc375ca645888d29780e20c
17225	PKZIP (Mixed Multi-File) *	$pkzip2$3*1*1*0*0*24*3e2c*3ef8*0619e9d17ff3f994065b99b1fa8aef41c056edf9fa4540919c109742dcb32f797fc90ce0*1*0*8*24*431a*3f26*18e2461c0dbad89bd9cc763067a020c89b5e16195b1
17230	PKZIP (Compressed Multi-File Checksum-Only) *	$pkzip2$8*1*1*0*8*24*a425*8827*3bd479d541019c2f32395046b8fbca7e1dca218b9b5414975be49942c3536298e9cc939e*1*0*8*24*2a74*882a*537af57c30fd9fd4b3eefa9ce55b6bff3bbfada23
17300	SHA3-224	412ef78534ba6ab0e9b1607d3e9767a25c1ea9d5e83176b4c2817a6c
17400	SHA3-256	d60fcf6585da4e17224f58858970f0ed5ab042c3916b76b0b828e62eaf636cbd
17500	SHA3-384	983ba28532cc6320d04f20fa485bcedb38bddb666eca5f1e5aa279ff1c6244fe5f83cf4bbf05b95ff378dd2353617221
17600	SHA3-512	7c2dc1d743735d4e069f3bda85b1b7e9172033dfdd8cd599ca094ef8570f3930c3f2c0b7afc8d6152ce4eaad6057a2ff22e71934b3a3dd0fb55a7fc84a53144e
17700	Keccak-224	e1dfad9bafeae6ef15f5bbb16cf4c26f09f5f1e7870581962fc84636
17800	Keccak-256	203f88777f18bb4ee1226627b547808f38d90d3e106262b5de9ca943b57137b6
17900	Keccak-384	5804b7ada5806ba79540100e9a7ef493654ff2a21d94d4f2ce4bf69abda5d94bf03701fe9525a15dfdc625bfbd769701
18000	Keccak-512	2fbf5c9080f0a704de2e915ba8fdae6ab00bbc026b2c1c8fa07da1239381c6b7f4dfd399bf9652500da723694a4c719587dd0219cb30eabe61210a8ae4dc0b03
18100	TOTP (HMAC-SHA1)	597056:3600
18200	Kerberos 5 AS-REP etype 23	$krb5asrep$23$user@domain.com:3e156ada591263b8aab0965f5aebd837$007497cb51b6c8116d6407a782ea0e1c5402b17db7afa6b05a6d30ed164a9933c754d720e279c6c573679bd27128fe
18300	Apple File System (APFS)	$fvde$2$16$58778104701476542047675521040224$20000$39602e86b7cea4a34f4ff69ff6ed706d68954ee474de1d2a9f6a6f2d24d172001e484c1d4eaa237d
18400	Open Document Format (ODF) 1.2 (SHA-256, AES) *	odf*1*1*100000*32*751854d8b90731ce0579f96bea6f0d4ac2fb2f546b31f1b6af9a5f66952a0bf4*16*2185a966155baa9e2fb597298febecbc*16*c18eaae34bcbbe9119be017fe5f8b52d*0*051e0
18500	sha1(md5(md5($pass))) *	888a2ffcb3854fba0321110c5d0d434ad1aa2880
18600	Open Document Format (ODF) 1.1 (SHA-1, Blowfish) *	odf*0*0*1024*16*bff753835f4ea15644b8a2f8e4b5be3d147b9576*8*ee371da34333b69d*16*a902eff54a4d782a26a899a31f97bef4*0*dae7e41fbc3a500d3ce152edd8876c4f38fb17d673ee2ac4
18700	Java Object hashCode() *	29937c08
18800	Blockchain, My Wallet, Second Password (SHA256) *	YnM6WYERjJfhxwepT7zV6odWoEUz1X4esYQb4bQ3KZ7bbZAyOTc1MDM3OTc1NjMyODA0ECcAAD3vFoc=
18900	Android Backup *	ab5*0*10000*b8900e4885ff9cad8f01ee1957a43bd633fea12491440514ae27aa83f2f5c006ec7e7fa0bce040add619919b4eb60608304b7d571a2ed87fd58c9ad6bc5fcf4c*7d254d93e16be9312f
19000	QNX /etc/shadow (MD5) *	@m@75f6f129f9c9e77b6b1b78f791ed764a@8741857532330050
19100	QNX /etc/shadow (SHA256) *	@s@0b365cab7e17ee1e7e1a90078501cc1aa85888d6da34e2f5b04f5c614b882a93@5498317092471604
19200	QNX /etc/shadow (SHA512) *	@S@715df9e94c097805dd1e13c6a40f331d02ce589765a2100ec7435e76b978d5efc364ce10870780622cee003c9951bd92ec1020c924b124cfff7e0fa1f73e3672@2257314490293159
19300	sha1($salt1.$pass.$salt2) *	630d2e918ab98e5fad9c61c0e4697654c4c16d73:184638128768986034208354201398700317628 67:4449516425193605979760642927684590668549584534278112685644182848763890902
19500	Ruby on Rails Restful-Authentication *	d7d5ea3e09391da412b653ae6c8d7431ec273ea2:238769868762:8962783556527653675
19600	Kerberos 5 TGS-REP etype 17 (AES128-CTS-HMAC-SHA1-96) *	$krb5tgs$17$user$realm$ae8434177efd09be5bc2eff8$90b4ce5b266821adc26c64f71958a475cf9348fce65096190be04f8430c4e0d554c86dd7ad29c275f9e8f15d2dab4565a3d6e21e449dc2f88e
19700	Kerberos 5 TGS-REP etype 18 (AES256-CTS-HMAC-SHA1-96) *	$krb5tgs$18$user$realm$8efd91bb01cc69dd07e46009$7352410d6aafd72c64972a66058b02aa1c28ac580ba41137d5a170467f06f17faf5dfb3f95ecf4fad74821fdc7e63a3195573f45f962f86942cb
19800	Kerberos 5, etype 17, Pre-Auth *	$krb5pa$17$hashcat$HASHCATDOMAIN.COM$a17776abe5383236c58582f515843e029ecbff43706d177651b7b6cdb2713b17597ddb35b1c9c470c281589fd1d51cca125414d19e40e333
19900	Kerberos 5, etype 18, Pre-Auth *	$krb5pa$18$hashcat$HASHCATDOMAIN.COM$96c289009b05181bfd32062962740b1b1ce5f74eb12e0266cde74e81094661addab08c0c1a178882c91a0ed89ae4e0e68d2820b9cce69770
20011	DiskCryptor SHA512 + XTS 512 bit (AES) *	https://hashcat.net/misc/example_hashes/dc/hashcat_aes.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_aes.dc]
20011	DiskCryptor SHA512 + XTS 512 bit (Twofish) *	https://hashcat.net/misc/example_hashes/dc/hashcat_twofish.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_twofish.dc]
20011	DiskCryptor SHA512 + XTS 512 bit (Serpent) *	https://hashcat.net/misc/example_hashes/dc/hashcat_serpent.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_serpent.dc]
20012	DiskCryptor SHA512 + XTS 1024 bit (AES-Twofish) *	https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish.dc]
20012	DiskCryptor SHA512 + XTS 1024 bit (Twofish-Serpent) *	https://hashcat.net/misc/example_hashes/dc/hashcat_twofish_serpent.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_twofish_serpent.dc]
20012	DiskCryptor SHA512 + XTS 1024 bit (Serpent-AES) *	https://hashcat.net/misc/example_hashes/dc/hashcat_serpent_aes.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_serpent_aes.dc]
20013	DiskCryptor SHA512 + XTS 1536 bit (AES-Twofish-Serpent) *	https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish_serpent.dc [https://hashcat.net/misc/example_hashes/dc/hashcat_aes_twofish_serpent.dc]
20200	Python passlib pbkdf2-sha512 *	$pbkdf2-sha512$25000$LyWE0HrP2RsjZCxlDGFMKQ$1vC5Ohk2mCS9b6akqsEfgeb4l74SF8XjH.SljXf3dMLHdlY1GK9ojcCKts6/asR4aPqBmk74nCDddU3tvSCJvw
20300	Python passlib pbkdf2-sha256 *	$pbkdf2-sha256$29000$x9h7j/Ge8x6DMEao1VqrdQ$kra3R1wEnY8mPdDWOpTqOTINaAmZvRMcYd8u5OBQP9A
20400	Python passlib pbkdf2-sha1 *	$pbkdf2$131000$r5WythYixPgfQ2jt3buXcg$8Kdr.QQEOaZIXNOrrru36l/.6Po
20500	PKZIP Master Key *	f1eff5c0368d10311dcfc419
20510	PKZIP Master Key (6 byte optimization) [17] *	f1eff5c0368d10311dcfc419
20600	Oracle Transportation Management (SHA256) *	otm_sha256:1000:1234567890:S5Q9Kc0ETY6ZPyQU+JYY60oFjaJuZZaSinggmzU8PC4=
20710	sha256(sha256($pass).$salt) *	bfede293ecf6539211a7305ea218b9f3f608953130405cda9eaba6fb6250f824:7218532375810603
20711*	AuthMe sha256	SHA7218532375810603$bfede293ecf6539211a7305ea218b9f3f608953130405cda9eaba6fb6250f824
20800	sha256(md5($pass)) *	74ee1fae245edd6f27bf36efc3604942479fceefbadab5dc5c0b538c196eb0f1
20900	md5(sha1($pass).md5($pass).sha1($pass)) *	100b3a4fc1dc8d60d9bf40688d8b740a

21000	BitShares v0.x - sha512(sha512_bin(pass)) *	caec04bdf7c17f763a9ec7439f7c9abda112f1bfc9b1bb684fef9b6142636979b9896cfc236896d821a69a961a143dd19c96d59777258201f1bbe5ecc2a2ecf5
21100	sha1(md5($pass.$salt)) *	aade80a61c6e3cd3cac614f47c1991e0a87dd028:6
21200	md5(sha1($salt).md5($pass)) *	e69b7a7fe1bf2ad9ef116f79551ee919:baa038987e582431a6d
21300	md5($salt.sha1($salt.$pass)) *	799dc7d9aa4d3f404cc21a4936dbdcde:68617368636174
21400	sha256(sha256_bin(pass)) *	0cc1b58a543f372327aa0281e97ab56e345267ee46feabf7709515debb7ec43c
21500*	SolarWinds Orion	$solarwinds$0$admin$fj4EBQewCQUZ7IYHl0qL8uj9kQSBb3m7N4u0crkKK0Uj9rbbAnSrBZMXO7oWx9KqL3sCzwncvPZ9hyDV9QCFTg==
99999	Plaintext	hashcat

* In beta or not yet released

[1] Password: “hashcat!”

[2] Rounds=[# of iterations] is **optional** here, after signature, e.g. 5rounds=5000

[3] As in [2] but the number of rounds **must** be specified

[4] The hash used here is **not** the one sent via e.g. the web interface to LastPass servers (pbkdf2_sha256_hex (pbkdf2_sha256 ($pass, $email, $iterations), $pass, 1) but instead the one stored (by e.g. your browser or the pocket version) to disk. For instance, Opera and Chrome store the hash in local SQLite databases; Firefox uses files ending with “lpall.slps” - for Linux: 2nd line is interesting / base64 decode it; for Windows, see here [https://hashcat.net/forum/thread-2701-post-16111.html#pid16111] - and_key.itr

[5] You can consider the second part as a “salt”. If it is equal to 00000000, the CRC32 code will be considered as “not salted”

[6] The raw sha256 output is used for base64() encoding (not the hexadecimal output)

[7] The format is hash:salt:id

[8] Password: “hashcat1”

[9] Password: “hashcat1hashcat1hashcat1”

[10] This file actually contains several examples of the different hash+cipher combinations. The password is stored in the pw file.

[11] You can use itunes_backup2hashcat [https://github.com/philsmd/itunes_backup2hashcat/] to extract the hashes from the Manifest.plist file

[12] Password: “hashcat!!!”. Min/max password length is exactly 10 characters/bytes.

[13] You can use AxSuite by Fist0urs [https://github.com/Fist0urs/AxSuite] to retrieve the hashes.

[14] Password: a288fcf0caaacda9a9f58633ff35e8992a01d9c10ba5e02efdf8cb5d730ce7bc

[15] Password: 5b13d4babb3714ccc62c9f71864bc984efd6a55f237c7a87fc2151e1ca658a9d

[16] PIM: 500

[17] full password in output is hashcat, but input provided must be without the first 6 bytes (therefore just: t)

Specific hash types

These hash types are usually only found on a specific platform.

Hash-Mode	Hash-Name	Example
11	Joomla < 2.5.18	19e0e8d91c722e7091ca7a6a6fb0f4fa:54718031842521651757785603028777
12	PostgreSQL	a6343a68d964ca596d9752250d54bb8a:postgres
21	osCommerce, xt:Commerce	374996a5e8a5e57fd97d893f7df79824:36
22	Juniper NetScreen/SSG (ScreenOS)	nNxKL2rOEkbBc9BFLsVGG6OtOUO/8n:user
23	Skype	3af0389f093b181ae26452015f4ae728:user
101	nsldap, SHA-1(Base64), Netscape LDAP SHA	{SHA}uJ6qx+YUFzQbcQtyd2gpTQ5qJ3s=
111	nsldaps, SSHA-1(Base64), Netscape LDAP SSHA	{SSHA}AZKja92fbuuB9SpRlHqaoXxbTc43Mzc2MDM1Ng==
112	Oracle S: Type (Oracle 11+)	ac5f1e62d21fd0529428b84d42e8955b04966703:38445748184477378130
121	SMF (Simple Machines Forum) > v1.1	ecf076ce9d6ed3624a9332112b1cd67b236fdd11:17782686
122	OSX v10.4, OSX v10.5, OSX v10.6	1430823483d07626ef8be3fda2ff056d0dfd818dbfe47683
124	Django (SHA-1)	sha1$fe76b$02d5916550edf7fc8c886f044887f4b1abf9b013
125	ArubaOS	5387280701327dc2162bdeb451d5a465af6d13eff9276efeba
131	MSSQL (2000)	0x0100270256050000000000000000000000000000000000000000000008db43dd9b1972a636ad0c7d4b8c515cb8ce46578
132	MSSQL (2005)	0x0100181021 52f8f28c8499d8ef263c53f8be369d799f931b2fbe
133	PeopleSoft	uXmFVrdBvv293L9kDR3VnRmx4ZM=
141	Episerver 6.x < .NET 4	$episerver$*0*bEtiVGhPNlZpcUN4a3ExTg==*utkfN0EOgljbv5FoZ6+AcZD5iLk
1411	SSHA-256(Base64), LDAP {SSHA256}	{SSHA256}OZiz0cnQ5hgyel3Emh7NCbhBRCQ+HVBwYplQunHYnER7TLuV
1421	hMailServer	8fe7ca27a17adc337cd892b1d959b4e487b8f0ef09e32214f44fb1b07e461c532e9ec3
1441	Episerver 6.x >= .NET 4	$episerver$*1*MDEyMzQ1Njc4OWFiY2RlZg==*lRjiU46qHA7S6ZE7RfKUcYhB85ofArj1j7TrCtu3u6Y
1711	SSHA-512(Base64), LDAP {SSHA512}	{SSHA512}ALtwKGBdRgD+U0fPAy31C28RyKYx7+a8kmfksccsOeLknLHv2DBXYI7TDnTolQMBuPkWDISgZr2cHfnNPFjGZTEyNDU4OTkw
1722	OSX v10.7	648742485c9b0acd786a233b2330197223118111b481abfa0ab8b3e8ede5f014fc7c523991c007db6882680b09962d16fd9c45568260531bdb34804a5e31c22b4cfeb32d
1731	MSSQL (2012, 2014)	0x02000102030434ea1b17802fd95ea6316bd61d2c94622ca3812793e8fb1672487b5c904a45a31b2ab4a78890d563d2fcf5663e46fe797d71550494be50cf4915d3f4d55ec375
2611	vBulletin < v3.8.5	16780ba78d2d5f02f3202901c1b6d975:568
2612	PHPS	$PHPS$343234383737 34$5b07e065b9d78d69603e71201c6cf29f
2711	vBulletin >= v3.8.5	bf366348c53ddcfbd16e63edfdd1eee6:181264250056774603641874043270
2811	IPB2+ (Invision Power Board), MyBB 1.2+	8d2129083ef35f4b365d5d87487e1207:47204
3711	MediaWiki B type	B56668501$0ce106caa70af57fd525aeaf80ef2898
4521	Redmine	1fb46a8f81d8838f46879aaa29168d08aa6bf22d:3290afd193d90e900e8021f81409d7a9
4522	PunBB	4a2b722cc65ecf0f7797cdaea4bce81f66716eef:653074362104
4711	Huawei sha1(md5($pass).$salt)	53c724b7f34f09787ed3f1b316215fc35c789504:hashcat1
12001	Atlassian (PBKDF2-HMAC-SHA1)	{PKCS5S2}NzIyNzM0NzY3NTIwNjI3MdDDis7wPxSbSzfFqDGf7u/L00kSEnupbz36XCL0m7wa

Legacy hash types

These hash types are only supported in hashcat-legacy or oclHashcat.

Hash-Mode	Hash-Name	Example
~~123~~	~~EPi~~	0x326C6D7B4E4F794B79474E36704F3572395839716373526351626545 6E31 0xAFC55E260B8F45C0C6512BCE776C1AD8312B56E6
~~190~~	~~sha1(LinkedIn)~~ [2]	b89eaac7e61417341b710b727768294d0e6a277b
~~1431~~	~~base64(sha256(unicode($pass)))~~ [1]	npKD5jP0p6QtOryTcBFVvor+VmDaJMh1jn01M+Ly3II=
~~3300~~	~~MD5(Sun)~~ [1]	$md5$rounds=904$iPPKEBnEkp3JV8uX$0L6m7rOFTVFn.SGqo2M9W1
~~3500~~	~~md5(md5(md5($pass)))~~ [1]	9882d0778518b095917eb589f6998441

Hash-Mode	Hash-Name	Example
~~3610~~	~~md5(md5($salt).$pass)~~ [1]	7b57255a15958ef898543ea6cc3313bc:1234
~~3720~~	~~md5($pass.md5($salt))~~ [1]	10ce488714fdbde9453670e0e4cbe99c:1234
~~3721~~	~~WebEdition CMS~~ [1]	fa01af9f0de5f377ae8befb03865178e:5678
~~4210~~	~~md5($username.0.$pass)~~ [1]	09ea048c345ad336ebe38ae5b6c4de24:1234
~~4600~~	~~sha1(sha1(sha1($pass)))~~ [1]	dc57f246485e62d99a5110afc9264b4ccbfcf3cc

[1] Supported in hashcat-legacy
[2] Supported in oclHashcat

Superseded hash types

These hash types used to be in some version of hashcat, but were removed or replaced.

Hash-Mode	Hash-Name	Example	
5000	SHA-3 (Keccak)	203f88777f18bb4ee1226627b547808f38d90d3e106262b5de9ca943b57137b6	replaced by specific Keccak types in hashcat 5.0.0