

Contents

IRC Numeric Codes

The codes included here are taken from:

**Network Working Group
Request for Comments: 1459
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Internet Relay Chat Protocol

Which is available at: **<http://ds.internic.net/rfc/rfc1459.txt>**

The following Help Topics are available:

[The Help Authors Advisory](#)

[Series 400 codes](#) Error Replies (includes 2 series 500 codes)

[Series 300 codes](#) Command Replies

[Series 200 codes](#) Command Replies

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For Help on Help, Press F1

hlp ver 1.a

Numeric Code Advisory:

This help is not designed as a guide for the use of IRC Numeric Codes, but as a simple reference to the Numeric Code numbers. It is primarily designed for mIRC user's with versions later than 4.5.

Thanks to Hot_Ice for pointing me to the source document.

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Series 400 Codes: Error Replies

REPLIES

The following is a list of numeric replies which are generated in response to the commands given above. Each numeric is given with its number, name and reply string.

Error Replies.

- 401 ERR_NOSUCHNICK
 "<nickname> :No such nick/channel"
- Used to indicate the nickname parameter supplied to a command is currently unused.
- 402 ERR_NOSUCHSERVER
 "<server name> :No such server"
- Used to indicate the server name given currently doesn't exist.
- 403 ERR_NOSUCHCHANNEL
 "<channel name> :No such channel"
- Used to indicate the given channel name is invalid.
- 404 ERR_CANNOTSENDOCHAN
 "<channel name> :Cannot send to channel"
- Sent to a user who is either (a) not on a channel which is mode +n or (b) not a chanop (or mode +v) on a channel which has mode +m set and is trying to send a PRIVMSG message to that channel.
- 405 ERR_TOOMANYCHANNELS
 "<channel name> :You have joined too many \ channels"
- Sent to a user when they have joined the maximum number of allowed channels and they try to join another channel.
- 406 ERR_WASNOSUCHNICK
 "<nickname> :There was no such nickname"
- Returned by WHOWAS to indicate there is no history information for that nickname.
- 407 ERR_TOOMANYTARGETS
 "<target> :Duplicate recipients. No message \ delivered"
- Returned to a client which is attempting to send a PRIVMSG/NOTICE using the user@host destination format and for a user@host which has several occurrences.

- 409 ERR_NOORIGIN
":No origin specified"
- PING or PONG message missing the originator parameter which is required since these commands must work without valid prefixes.
- 411 ERR_NORECIPIENT
":No recipient given (<command>)"
- 412 ERR_NOTEXTTOSEND
":No text to send"
- 413 ERR_NOTOPLEVEL
"<mask> :No toplevel domain specified"
- 414 ERR_WILDTOPLEVEL
"<mask> :Wildcard in toplevel domain"
- 412 - 414 are returned by PRIVMSG to indicate that the message wasn't delivered for some reason. ERR_NOTOPLEVEL and ERR_WILDTOPLEVEL are errors that are returned when an invalid use of "PRIVMSG \$<server>" or "PRIVMSG #<host>" is attempted.
- 421 ERR_UNKNOWNCOMMAND
"<command> :Unknown command"
- Returned to a registered client to indicate that the command sent is unknown by the server.
- 422 ERR_NOMOTD
":MOTD File is missing"
- Server's MOTD file could not be opened by the server.
- 423 ERR_NOADMININFO
"<server> :No administrative info available"
- Returned by a server in response to an ADMIN message when there is an error in finding the appropriate information.
- 424 ERR_FILEERROR
":File error doing <file op> on <file>"
- Generic error message used to report a failed file operation during the processing of a message.
- 431 ERR_NONICKNAMEGIVEN
":No nickname given"
- Returned when a nickname parameter expected for a command and isn't found.

- 432 ERR_ERRONEUSNICKNAME
"<nick> :Erroneus nickname"
- Returned after receiving a NICK message which contains characters which do not fall in the defined set. See section x.x.x for details on valid nicknames.
- 433 ERR_NICKNAMEINUSE
"<nick> :Nickname is already in use"
- Returned when a NICK message is processed that results in an attempt to change to a currently existing nickname.
- 436 ERR_NICKCOLLISION
"<nick> :Nickname collision KILL"
- Returned by a server to a client when it detects a nickname collision (registered of a NICK that already exists by another server).
- 441 ERR_USERNOTINCHANNEL
"<nick> <channel> :They aren't on that channel"
- Returned by the server to indicate that the target user of the command is not on the given channel.
- 442 ERR_NOTONCHANNEL
"<channel> :You're not on that channel"
- Returned by the server whenever a client tries to perform a channel effecting command for which the client isn't a member.
- 443 ERR_USERONCHANNEL
"<user> <channel> :is already on channel"
- Returned when a client tries to invite a user to a channel they are already on.
- 444 ERR_NOLOGIN
"<user> :User not logged in"
- Returned by the summon after a SUMMON command for a user was unable to be performed since they were not logged in.
- 445 ERR_SUMMONDISABLED
":SUMMON has been disabled"
- Returned as a response to the SUMMON command. Must be returned by any server which does not implement it.

- 446 ERR_USERSDISABLED
":USERS has been disabled"
- Returned as a response to the USERS command. Must be returned by any server which does not implement it.
- 451 ERR_NOTREGISTERED
":You have not registered"
- Returned by the server to indicate that the client must be registered before the server will allow it to be parsed in detail.
- 461 ERR_NEEDMOREPARAMS
"<command> :Not enough parameters"
- Returned by the server by numerous commands to indicate to the client that it didn't supply enough parameters.
- 462 ERR_ALREADYREGISTRED
":You may not reregister"
- Returned by the server to any link which tries to change part of the registered details (such as password or user details from second USER message).
- 463 ERR_NOPERMFORHOST
":Your host isn't among the privileged"
- Returned to a client which attempts to register with a server which does not been setup to allow connections from the host the attempted connection is tried.
- 464 ERR_PASSWDMISMATCH
":Password incorrect"
- Returned to indicate a failed attempt at registering a connection for which a password was required and was either not given or incorrect.
- 465 ERR_YOUREBANNEDCREEP
":You are banned from this server"
- Returned after an attempt to connect and register yourself with a server which has been setup to explicitly deny connections to you.
- 467 ERR_KEYSET
"<channel> :Channel key already set"
- 471 ERR_CHANNELISFULL
"<channel> :Cannot join channel (+I)"

472 ERR_UNKNOWNMODE
"<char> :is unknown mode char to me"
473 ERR_INVITEONLYCHAN
"<channel> :Cannot join channel (+i)"
474 ERR_BANNEDFROMCHAN
"<channel> :Cannot join channel (+b)"
475 ERR_BADCHANNELKEY
"<channel> :Cannot join channel (+k)"
481 ERR_NOPRIVILEGES
":Permission Denied- You're not an IRC operator"

- Any command requiring operator privileges to operate must return this error to indicate the attempt was unsuccessful.

482 ERR_CHANOPRIVSNEEDED
"<channel> :You're not channel operator"

- Any command requiring 'chanop' privileges (such as MODE messages) must return this error if the client making the attempt is not a chanop on the specified channel.

483 ERR_CANTKILLSERVER
":You cant kill a server!"

- Any attempts to use the KILL command on a server are to be refused and this error returned directly to the client.

491 ERR_NOOPERHOST
":No O-lines for your host"

- If a client sends an OPER message and the server has not been configured to allow connections from the client's host as an operator, this error must be returned.

501 ERR_UMODEUNKNOWNFLAG
":Unknown MODE flag"

- Returned by the server to indicate that a MODE message was sent with a nickname parameter and that the a mode flag sent was not recognized.

502 ERR_USERSDONTMATCH
":Cant change mode for other users"

- Error sent to any user trying to view or change the user mode for a user other than themselves.

Series 300 Codes: Command Replies

Command responses.

- 300 RPL_NONE
Dummy reply number. Not used.
- 302 RPL_USERHOST
":[<reply>{<space><reply>}]"
- Reply format used by USERHOST to list replies to the query list. The reply string is composed as follows:
- <reply> ::= <nick>[*]'=' <'+'|'-><hostname>
- The '*' indicates whether the client has registered as an Operator. The '-' or '+' characters represent whether the client has set an AWAY message or not respectively.
- 303 RPL_ISON
":[<nick> {<space><nick>}]"
- Reply format used by ISON to list replies to the query list.
- 301 RPL_AWAY
"<nick> :<away message>"
- 305 RPL_UNAWAY
":You are no longer marked as being away"
- 306 RPL_NOWAWAY
":You have been marked as being away"
- These replies are used with the AWAY command (if allowed). RPL_AWAY is sent to any client sending a PRIVMSG to a client which is away. RPL_AWAY is only sent by the server to which the client is connected. Replies RPL_UNAWAY and RPL_NOWAWAY are sent when the client removes and sets an AWAY message.
- 311 RPL_WHOSUSER
"<nick> <user> <host> * :<real name>"
- 312 RPL_WHOSSEVER
"<nick> <server> :<server info>"
- 313 RPL_WHOSOPERATOR
"<nick> :is an IRC operator"
- 317 RPL_WHOSIDLE
"<nick> <integer> :seconds idle"
- 318 RPL_ENDOFWHOIS
"<nick> :End of /WHOIS list"
- 319 RPL_WHOSCHANNELS
"<nick> :{[@|+}<channel><space>}"

- Replies 311 - 313, 317 - 319 are all replies generated in response to a WHOIS message. Given that there are enough parameters present, the answering server must either formulate a reply out of the above numerics (if the query nick is found) or return an error reply. The '*' in RPL_WHOISUSER is there as the literal character and not as a wild card. For each reply set, only RPL_WHOISCHANNELS may appear more than once (for long lists of channel names). The '@' and '+' characters next to the channel name indicate whether a client is a channel operator or has been granted permission to speak on a moderated channel. The RPL_ENDOFWHOIS reply is used to mark the end of processing a WHOIS message.

314 RPL_WHOWASUSER
 "<nick> <user> <host> * :<real name>"
 369 RPL_ENDOFWHOWAS
 "<nick> :End of WHOWAS"

- When replying to a WHOWAS message, a server must use the replies RPL_WHOWASUSER, RPL_WHOISSERVER or ERR_WASNOSUCHNICK for each nickname in the presented list. At the end of all reply batches, there must be RPL_ENDOFWHOWAS (even if there was only one reply and it was an error).

321 RPL_LISTSTART
 "Channel :Users Name"
 322 RPL_LIST
 "<channel> <# visible> :<topic>"
 323 RPL_LISTEND
 ":End of /LIST"

- Replies RPL_LISTSTART, RPL_LIST, RPL_LISTEND mark the start, actual replies with data and end of the server's response to a LIST command. If there are no channels available to return, only the start and end reply must be sent.

324 RPL_CHANNELMODEIS
 "<channel> <mode> <mode params>"
 331 RPL_NOTOPIC
 "<channel> :No topic is set"
 332 RPL_TOPIC
 "<channel> :<topic>"

- When sending a TOPIC message to determine the channel topic, one of two replies is sent. If the topic is set, RPL_TOPIC is sent back else RPL_NOTOPIC.

341 RPL_INVITING

"<channel> <nick>"

- Returned by the server to indicate that the attempted INVITE message was successful and is being passed onto the end client.

342 RPL_SUMMONING
" <user> :Summoning user to IRC"

- Returned by a server answering a SUMMON message to indicate that it is summoning that user.

351 RPL_VERSION
" <version>. <debuglevel> <server> :<comments>"

- Reply by the server showing its version details. The <version> is the version of the software being used (including any patchlevel revisions) and the <debuglevel> is used to indicate if the server is running in "debug mode".

The "comments" field may contain any comments about the version or further version details.

352 RPL_WHOREPLY
" <channel> <user> <host> <server> <nick> \
<H|G>[*][@|+] :<hopcount> <real name>"

315 RPL_ENDOFWHO
" <name> :End of /WHO list"

- The RPL_WHOREPLY and RPL_ENDOFWHO pair are used to answer a WHO message. The RPL_WHOREPLY is only sent if there is an appropriate match to the WHO query. If there is a list of parameters supplied with a WHO message, a RPL_ENDOFWHO must be sent after processing each list item with <name> being the item.

353 RPL_NAMREPLY
" <channel> :[[@|+]<nick> [[@|+]<nick> [...]]"

366 RPL_ENDOFNAMES
" <channel> :End of /NAMES list"

- To reply to a NAMES message, a reply pair consisting of RPL_NAMREPLY and RPL_ENDOFNAMES is sent by the server back to the client. If there is no channel found as in the query, then only RPL_ENDOFNAMES is returned. The exception to this is when a NAMES message is sent with no parameters and all visible channels and contents are sent back in a series of RPL_NAMREPLY messages with a RPL_ENDOFNAMES to mark the end.

364 RPL_LINKS
" <mask> <server> :<hopcount> <server info>"

- 365 RPL_ENDOFLINKS
"<mask> :End of /LINKS list"
- In replying to the LINKS message, a server must send replies back using the RPL_LINKS numeric and mark the end of the list using an RPL_ENDOFLINKS reply.
- 367 RPL_BANLIST
"<channel> <banid>"
- 368 RPL_ENDOFBANLIST
"<channel> :End of channel ban list"
- When listing the active 'bans' for a given channel, a server is required to send the list back using the RPL_BANLIST and RPL_ENDOFBANLIST messages. A separate RPL_BANLIST is sent for each active banid. After the banids have been listed (or if none present) a RPL_ENDOFBANLIST must be sent.
- 371 RPL_INFO
":<string>"
- 374 RPL_ENDOFINFO
":End of /INFO list"
- A server responding to an INFO message is required to send all its 'info' in a series of RPL_INFO messages with a RPL_ENDOFINFO reply to indicate the end of the replies.
- 375 RPL_MOTDSTART
":- <server> Message of the day - "
- 372 RPL_MOTD
":- <text>"
- 376 RPL_ENDOFMOTD
":End of /MOTD command"
- When responding to the MOTD message and the MOTD file is found, the file is displayed line by line, with each line no longer than 80 characters, using RPL_MOTD format replies. These should be surrounded by a RPL_MOTDSTART (before the RPL_MOTDs) and an RPL_ENDOFMOTD (after).
- 381 RPL_YOUREOPER
":You are now an IRC operator"
- RPL_YOUREOPER is sent back to a client which has just successfully issued an OPER message and gained operator status.
- 382 RPL_REHASHING
"<config file> :Rehashing"
- If the REHASH option is used and an operator sends a REHASH message, an RPL_REHASHING is sent back to

the operator.

391 RPL_TIME
" <server> : <string showing server's local time > "

- When replying to the TIME message, a server must send the reply using the RPL_TIME format above. The string showing the time need only contain the correct day and time there. There is no further requirement for the time string.

392 RPL_USERSSTART
":UserID Terminal Host"

393 RPL_USERS
":%-8s %-9s %-8s"

394 RPL_ENDOFUSERS
":End of users"

395 RPL_NOUSERS
":Nobody logged in"

- If the USERS message is handled by a server, the replies RPL_USERSTART, RPL_USERS, RPL_ENDOFUSERS and RPL_NOUSERS are used. RPL_USERSSTART must be sent first, following by either a sequence of RPL_USERS or a single RPL_NOUSER. Following this is RPL_ENDOFUSERS.

Series 200 Codes: Command Replies

200	RPL_TRACELINK	"Link <version & debug level> <destination> \ <next server>"
201	RPL_TRACECONNECTING	"Try. <class> <server>"
202	RPL_TRACEHANDSHAKE	"H.S. <class> <server>"
203	RPL_TRACEUNKNOWN	"???? <class> [<client IP address in dot form>]"
204	RPL_TRACEOPERATOR	"Oper <class> <nick>"
205	RPL_TRACEUSER	"User <class> <nick>"
206	RPL_TRACESERVER	"Serv <class> <int>S <int>C <server> \ <nick!user!*!*>@<host server>"
208	RPL_TRACENEWTYPE	"<newtype> 0 <client name>"
261	RPL_TRACELOG	"File <logfile> <debug level>"

- The RPL_TRACE* are all returned by the server in response to the TRACE message. How many are returned is dependent on the the TRACE message and whether it was sent by an operator or not. There is no predefined order for which occurs first. Replies RPL_TRACEUNKNOWN, RPL_TRACECONNECTING and RPL_TRACEHANDSHAKE are all used for connections which have not been fully established and are either unknown, still attempting to connect or in the process of completing the 'server handshake'. RPL_TRACELINK is sent by any server which handles a TRACE message and has to pass it on to another server. The list of RPL_TRACELINKs sent in response to a TRACE command traversing the IRC network should reflect the actual connectivity of the servers themselves along that path. RPL_TRACENEWTYPE is to be used for any connection which does not fit in the other categories but is being displayed anyway.

211	RPL_STATSLINKINFO	"<linkname> <sendq> <sent messages> \ <sent bytes> <received messages> \ <received bytes> <time open>"
212	RPL_STATSCOMMANDS	"<command> <count>"
213	RPL_STATSCLINE	"C <host> * <name> <port> <class>"
214	RPL_STATSNLIN	"N <host> * <name> <port> <class>"
215	RPL_STATSLINE	"I <host> * <host> <port> <class>"

216 RPL_STATSKLINE
"K <host> * <username> <port> <class>"

218 RPL_STATSYLINE
"Y <class> <ping frequency> <connect \
frequency> <max sendq>"

219 RPL_ENDOFSTATS
"<stats letter> :End of /STATS report"

241 RPL_STATSLINE
"L <hostmask> * <servername> <maxdepth>"

242 RPL_STATSUPTIME
":Server Up %d days %d:%02d:%02d"

243 RPL_STATSOLINE
"O <hostmask> * <name>"

244 RPL_STATSHLINE
"H <hostmask> * <servername>"

221 RPL_UMODEIS
"<user mode string>"

- To answer a query about a client's own mode,
RPL_UMODEIS is sent back.

251 RPL_LUSERCLIENT
":There are <integer> users and <integer> \
invisible on <integer> servers"

252 RPL_LUSEROP
"<integer> :operator(s) online"

253 RPL_LUSERUNKNOWN
"<integer> :unknown connection(s)"

254 RPL_LUSERCHANNELS
"<integer> :channels formed"

255 RPL_LUSERME
":I have <integer> clients and <integer> \
servers"

- In processing an LUSERS message, the server
sends a set of replies from RPL_LUSERCLIENT,
RPL_LUSEROP, RPL_USERUNKNOWN,
RPL_LUSERCHANNELS and RPL_LUSERME. When
replying, a server must send back
RPL_LUSERCLIENT and RPL_LUSERME. The other
replies are only sent back if a non-zero count
is found for them.

256 RPL_ADMINME
"<server> :Administrative info"

257 RPL_ADMINLOC1
":<admin info>"

258 RPL_ADMINLOC2
":<admin info>"

259 RPL_ADMINEMAIL
":<admin info>"

- When replying to an ADMIN message, a server
is expected to use replies RLP_ADMINME

through to RPL_ADMINEMAIL and provide a text message with each. For RPL_ADMINLOC1 a description of what city, state and country the server is in is expected, followed by details of the university and department (RPL_ADMINLOC2) and finally the administrative contact for the server (an email address here is required) in RPL_ADMINEMAIL.

Reserved Numerics

Reserved numerics.

These numerics are not described above since they fall into one of the following categories:

1. no longer in use;
2. reserved for future planned use;
3. in current use but are part of a non-generic 'feature' of the current IRC server.

209	RPL_TRACECLASS	217	RPL_STATSQLINE
231	RPL_SERVICEINFO	232	RPL_ENDOFSERVICES
233	RPL_SERVICE	234	RPL_SERVLIST
235	RPL_SERVLISTEND		
316	RPL_WHOSCHANOP	361	RPL_KILLDONE
362	RPL_CLOSING	363	RPL_CLOSEEND
373	RPL_INFOSTART	384	RPL_MYPORTIS
466	ERR_YOUWILLBEBANNED	476	ERR_BADCHANMASK
492	ERR_NOSERVICEHOST		

