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Jeepster's IRC Numeric Reference

Windows 3.1 Version

Version 2 Release Date: 11/15/96
This help was developed primarily for mIRC software users.

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Acknowledgments   *(including the blue text)*

Installation & Using This Help : A Quick READ ME! (Important Info)

Contacting The Help Author

Disclaimer (Legal Stuff)

For Help on Help, Press F1

Series 400 Error Replies

The following is a list of numeric replies which are generated in
response to the appropriate command.   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_CANNOTSENDTOCHAN
              "<channel name> :Cannot send to channel"
        - Sent to a user who is either (a) not on a channel
          which is mode +m 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.

D   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.
  DALnet Note: Reserved for DALnet services
  Happens when   non-oper tries to change to a nick
  that is Q:lined

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.
   DALnet Uses this numeric for Reserved Nicks
   :Nickname is registered to someone else.

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).

D   437   ERR_BANNICKCHANGE,
        "%s :Cannot change nickname while banned on channel"
            Not on EFnet

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 (+l)"
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)"
D/U 478   ERR_BANLISTFULL, "%s %s :Channel ban/ignore list is full",
            This does NOT work on EFNet (full after 20 entries)
            DALnet: Banlist is full after 60 entries

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.

D   511   ERR_SILELISTFULL, "%s :Your silence list is full"
            DALnet Only?

512   ERR_NOSUCHGLINE, "%s@%s :No such gline",
513   ERR_BADPING, (char*)NULL

Series 300 Command Replies

D = DALnet   U = Undernet   E = EFnet
Command replies

      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.

      304   RPL_TEXT, (char *)NULL,
               (uncertain about this one at time of release)

D   310   RPL_WHOISHELPOP, "%s :looks very helpful.",
               "<nick> <help status msg>
           A sample reply is: "White_Dragon looks very helpful."

      311   RPL_WHOISUSER
               "<nick> <user> <host> * :<real name>"
      312   RPL_WHOISSERVER
               "<nick> <server> :<server info>"
      313   RPL_WHOISOPERATOR
               "<nick> :is an IRC operator"

317   RPL_WHOISIDLE
                "<nick> <integer> :seconds idle"
318   RPL_ENDOFWHOIS
                "<nick> :End of /WHOIS list"
319   RPL_WHOISCHANNELS
                "<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>"

D   328   Chanserv URL for a channel
              I don't know the alpha response for this.
              No chanserv on EFnet or Undernet.

D/U 329   RPL_CREATIONTIME, "%s %lu",
Gives creation time of channel when you join, or
when channel modes are changed. (Not on EFnet)

      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.

D/U/E 333   RPL_TOPICWHOTIME, "%s %s %lu",
     -Tells who set the topic, and when

      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> [...]]]"

D   362   RPL_CLOSING, "%s :Closed. Status = %d",

D   363   RPL_CLOSEEND, "%d: Connections Closed",
       Response to the /raw close command that closes
       unknown connections.   May work on nets other than
       DALnet.

      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_NAMEREPLY 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>"
       Banid can be broken into <banmask> <banner> <time/date>
       time/date can be converted by $asctime and is supported
       on most, but not all, EFnet servers. Info from "RoWDoG"

      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).

377   RPL_ISASERVICE
        - Undocumented

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 Command Replies

Newly added info: D = DALnet   U = Undernet   E = EFnet

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>"
262   RPL_TRACEPING
              - 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_STATSNLINE
                              "N <host> * <name> <port> <class>"
            215      RPL_STATSILINE
                              "I <host> * <host> <port> <class>"
            216      RPL_STATSKLINE
                              "K <host> * <username> <port> <class>"
```

D   217   RPL_STATSQLINE, "%c %s * %s %d %d",
                    DALnet and Reserved

```
            218      RPL_STATSYLINE
                              "Y <class> <ping frequency> <connect \
                               frequency> <max sendq>"
            219      RPL_ENDOFSTATS
                              "<stats letter> :End of /STATS report"

            241      RPL_STATSLLINE
                              "L <hostmask> * <servername> <maxdepth>"
            242      RPL_STATSUPTIME
                              ":Server Up %d days %d:%02d:%02d"
            243      RPL_STATSOLINE
                              "O <hostmask> * <name>"
            245      RPL_STATSSLINE
                              Undocumentd
            246      RPL_STATSTLINE
                              Undocumented
            244      RPL_STATSHLINE
                              "H <hostmask> * <servername>"
```

D   247   RPL_STATSXLINE, "X %s %d",

D/U 248   RPL_STATSULINE, "%c %s * %s %d %d",
                    Upper case /stats U gives U:lines on DALnet and
                    Undernet. Any u on EFnet, or lowercase u on DALnet
                    and Undernet gives server uptime (242) and highest
                    connection count (250)

249   RPL_STATSDEBUG
                    Undocumented at this time

D/U/E 250   RPL_STATSCONN,
                    ":Highest connection count: %d (%d clients)",
                    You get this on EFnet on connect, but not on DALnet
                    or Undernet when connecting, they use a notice instead.
                    Both respond with this numeric to a /stats u

```
            275      RPL_STATSDLINE, "%c %s %s"

            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.

       263   RPL_LOAD2HI :Server load is temporarily too heavy. Please wait

D/U   271   RPL_SILELIST, "%s %s",

D/U   272   RPL_ENDOFSILELIST, ":End of Silence List*",*
                    Format of silence command:
                    /silence   List users you have silenced
                    /silence [+]nick!user@host.dom Adds specified user
                    /silence   -nick!user@host.dom Removes specified user
                    Globals can be used in any part of the address, and

*/silence user@host.dom --> *!user@host.dom*
No silence command on EFnet

280 RPL_GLIST
     Undocumented at this time
281 RPL_ENDOFGLIST
     Undocumented at this time

Reserved Codes

Reserved numerics.

Help Author's Comment: Most of these are reserved.   I was only able to document them on DALnet.   Other net's likely use them as well.

Per the RFC 1459:
  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 **D**
        217   RPL_STATSQLINE **D**
        231   RPL_SERVICEINFO **D**
        232   RPL_ENDOFSERVICES **D**
        233   RPL_SERVICE **D**
        234   RPL_SERVLIST **D**
        235   RPL_SERVLISTEND **D**
        316   RPL_WHOISCHANOP
        361   RPL_KILLDONE **D**
        362   RPL_CLOSING **D**
        363   RPL_CLOSEEND **D**
        373   RPL_INFOSTART **D**
        384   RPL_MYPORTIS **D**
        466   ERR_YOUWILLBEBANNED **D**
        476   ERR_BADCHANMASK **D**
        492   ERR_NOSERVICEHOST **D**

Server Welcome

```
001     RPL_WELCOME, ":Welcome to the DALnet IRC Network %s",
002     RPL_YOURHOST, ":Your host is %s, running version %s",
003     RPL_CREATED, ":This server was created %s",
004     RPL_MYINFO, "%s %s oiwsg biklmnopstv",
005     RPL_MAP
006     RPL_MAPMORE
007     RPL_MAPEND
```

Numeric Code Fast Reference

 shows a list of codes related to the specific **topic**
Note: Jumps go directly to the specific **numeric code** entry or **topic** clicked
Topical Numerics:

 Whois :   **Stats** :   **MotD** :

 Who :   **Ban List**:   **Away** :

 Links :   **List** :   **Lusers** :

 Names :   **Silence** :   **Trace** :

 Admin :   **Mode** :   **Others** :

Numeric Code Sequence:
000 Series: **(hint)**
001 002 003 004 005 006 007
200 Series:
200 201 202 203 204 205 206 208 211 212 213 214 215 216 217 218 219 221 241 242 243 244 245 246
247 248 249 250 251 252 253 254 255 256 257 258 259 261 262 263 271 272 275 280 281
300 Series:
300 301 302 303 304 305 306 310 311 312 313 314 315 316 317 318 319 321 322 323 324 328 329 331
332 333 341 342 351 352 353 361 362 363 364 365 366 367 368 369 371 372 373 374 375 376 377 381
382 384 391 392 393 394 395
400 Series:
401 402 403 404 405 406 407 409 411 412 413 414 421 422 423 424 431 432 433 436 437 441 442 443
444 445 446 451 461 462 463 464 465 466 467 471 472 473 474 475 476 478 481 482 483 491   492
500 Series:
501 502 511 512 513

Using 001/002/003/004

When using the 000 series of numeric codes in mIRC, don't enter the code in as 001.   Use 1 without the 00's.   The same is true for all 000 codes.   Enter them as 1, 2, 3 or 4, etc.

Scripting Examples

These are provided as examples only:

These are a few examples what can be done with the Remote RAW section of mIRC.

Read <u>The Disclaimer</u> that is part of this Help file. Most of these scripts are written for mIRC version 4.6 or later, although some will work with mIRC version 4.52.   As is always the rule, use only scripts you understand.

Okay, with that out of the way, let's look at a couple of simple scripts.   Ever been typing away in a message/query window, while your status window hidden, only to find the person you "think" you are chatting with has quit or pinged out?   Here is a simple line that moves the "No Such User" reply from the status window to your message window.

Comments and explanations are in black text, the actual alias and raw entries are in blue text.

In Remote RAW section:

401:*:/echo 1 $parm2 $parm2* | halt

Now, a slightly more complex script for checking how long an individual user has been idle, what channels they are on and saving the info to variables so you can use it in an alias.

Related information: **MIRC.HLP** Links: (requires **mirc.hlp** in directory to work)
⇒   #Groups: <u>Access Levels</u>   *How to create Groups*
⇒   Variables: <u>Variables</u> *Setting anc controlling %variables*
⇒   If-Then-Else: <u>If/Then/Else</u>   *How to evaluate data*
⇒   Numeric Example: <u>How to listen for raw server messages</u>   *Listening for and using Numerics*

Using the RAW section and numerics to capture info and play it back at will in mIRC 4.52

Insert in Remote RAW Section:

#group1 start
319:*:/set %Hchan $parm3*
301:*:/echo $parms
317:*:{
set %idlet $parm3
set %idlet2 %idlet / 60
set %idlet3 %idlet2 * 60
set %idlet4 %idlet - %idlet3
}
halt
#group1 end

ALIAS Section:
The Alias to Initiate a Whois and capture Idle Time:
(note this let's you click on a nick and then hit your F9 key to do
the "/whois nick nick" and the nick nick is necessary if you want to
capture the time of someone that is on a different server than you.)

/f9 /whois $snicks $snicks | /set %idle $snicks | /set %chan $chan

Then to Play the info to the channel a second alias is used:

/worth { if (%idlet < 60)   msg %chan Say %Idle $+ ... $+ You've been Idle   %idlet <sec's> and you are on %Hchan $+ ... $+ Are you getting your money's worth?
   else {
      msg %chan Say %Idle $+ ... $+ You've been Idle about %idlet2 <min's> & %idlet4 <sec's> and you are on %Hchan $+ ... $+ Are you getting your money's worth?
   }
}

(This will check the idle time and if under 60 sec's play the first line (sec's) only, otherwise it will play the second line...(min's and sec's)

All right, now you want to see something a bit more ambitious, you say?   Here's **Ogre's** Channel Info Script.   This is so clean, it is almost poetry.   It is designed for IRCop's, so regular users may need to modify it slightly.

Ogre: Note that the Invisible Field is for IRC ops (non-opered users can't see +i)
Alias Section:

/chaninfo /.enable #ChanInfo | /echo 5 #   *** Gathering Channel Info | /who # #ChanInfo disabled

Remote Raw Section:
352:*: {
   if (* isin $parm7) { inc %CIIRCops 1 }
   if (@ isin $parm7) { inc %CIOps 1 }
   else { inc %CINOps 1 }
   if (G isin $parm7) { inc %CIAway 1 }
   if (H isin $parm7) { inc %CIHere 1 }
   if (+ isin $parm7) { inc %CIVoice 1 }
   if (% isin $parm7) { inc %CIInvi 1 }
   halt
}

315:*: {
   echo 5 $parm2 *** Info Collected
   if (%CIIRCops == $null) { set %CIIRCops 0 }
   if (%CIOps == $null) { set %CIOps 0 }
   if (%CINOps == $null) { set %CINops 0 }
   if (%CIAway == $null) { set %CIAway 0 }
   if (%CIHere == $null) { set %CIHere 0 }
   if (%CIVoice == $null) { set %CIVoice 0 }
   if (%CIInvi == $null) { set %CIInvi 0 }
   /echo 3 $parm2 Channel Stats for $parm2 $+ : Voiced: %CIVoice
   /echo 3 $parm2 IRCops: %CIIRCops \ Ops: %CIOps / Non-Ops: %CINOps
   /echo 3 $parm2 Away: %CIAway \ Here: %CIHere / Invisible: %CIInvi
   /echo 5 *** Channel Info Completed
   /.disable #ChanInfo
   unset %CI*
   halt

```
}
#ChanInfo end
```

Despayre has shared two examples here.   This one checks DALnet servers and notes which aren't present.   Of course we all know that DALnet never experiences Server Splits <g>.

For the Alias section: (note: you'll need to set %dalnetservers once prior to using this)
```
/F2 /links | /lusers | /set -q %missingservers %dalnetservers | unset -q
%extraservers | /.enable #serversmissing
```

For the Remote RAW section:
```
#serversmissing disabled
364:*: {
set %DALnetServers  WizNet-Hub Raptor Centurion
  Firehouse Sodre Opus Spider Phoenix Liberator Cin Dragon Skypoint
  Toronto Nether Services Kechara Dreamscape Taxi Mystic Aussie-hub Bunyip
Davis Xgw Hades Stlouis Toast Cyberverse Uncc Voyager Mindijari Ohana Glass
Farside
%tempserver = $token(1,46,$parm2)
if %tempserver !isin %DALnetservers  {  set
  %extraservers %extraservers %tempserver }
set %missingservers $remove(%missingservers,%tempserver)
halt
}
365:*: {
if %missingservers == $null { echo 4 $active All servers present and accounted
for. }
else echo 4 $active Server(s) Missing: %missingservers
if %extraservers !== $null echo 3 $active New server(s): %extraservers
timer 1 4 /disable #serversmissing
halt
}
#servermissing end
```

And here is a second example of **Despayre's** scripting in the Away Department:

<Despayre> k, this one requires 2 timers in the perform section...

Timers for the Perform Section:

```
/timer 0 298 if $!away == $false { enable #amIaway }
/timer 0 300 if $!away == $false { whois Despayre }
```

The #amIaway group for the Remote Raw Section:

```
#amIaway disabled
310:*Despayre*:halt
311:*Despayre*:halt
312:*Despayre*:halt
313:*Despayre*:halt
318:*Despayre*:halt
319:*Despayre*:halt
317:*Despayre*:{
```

```
if $parm3 > 250 { goto next }
disable #amIaway
halt
:next
set %away  Set away since $fulldate forced away by the new and improved
Drogo-Slacker-Attacker ™ 1996 All Rights Reserved  "Page Despayre" to page
me...(for an IRCop go to #DragonRealm)
ame is forcibly set away by the new and improved Drogo-Slacker-Attacker ™ 1996
All Rights Reserved
nick Desp-Away
timestamp on
timer50 0 3600 /describe # is away (alt-F4 to page him)
disable #amIaway
halt
}
#amIaway end
```

Note: `if $parm3 > 250 { goto next }` portion sets the number of seconds, modify
the 250 for however many seconds you want it to use.

Hexadec's Clone Checker.   This is a very slick piece of work.   Innovative way of checking for clones
with RAW.

10/14/96 Hexadec's clone finder's for mIRC 4.6+

Channel Popups:

```
Clone Check:who $chan | .enable #clone_check
```

Raw #clone_check group:

```
#clone_check disabled
352:* {
  %y = [ $readini [ scan.ini x $parm4 ] ]
  if (%y != $null) {
    if ($parm4 !isin %s) { %s = %s $parm4 }
  }
  writeini scan.ini x [ $parm4 ] . $+ $parm6) [ $readini [ scan.ini x $parm4 ]
]
  halt
}
315:* {
  if (%s == $null) { echo 4 -a There are no clones }
  :x
  inc %z
  if ($token(%z,32,%s) != $null) {
    echo 4 -a There are $count( [ $readini [ scan.ini x
$token(%z,32,%s) ] ] ,.) clients from *!*@ $+ $token(%z,32,%s)
    echo 4 -a $remove( [ $readini [ scan.ini x $token(%z,32,%s) ] ] ,.)
    goto x
  }
  unset %i %z %s %y
  remini scan.ini x
```

```
   .disable #clone_check
   halt
}
#clone_check end
```

Hexadec's Note

Lastly, **OkeyDoke** gives you a simple way to check Luser stats for the net you are connected to.

Okey's comments: The Raw section permits you to choose most anything the server sends and redirect it from your status window to your active window. Here's a simple example of formatting and redirecting raw data returned by the server. This will capture the current /lusers statistics for the net you're on, summarize them, and either display the summary to you or send it to the active channel/query window.

Place these lines in your Raw section:

251:*:%LUusers = $parm4 + $parm7 | %LUservers = $parm10
252:*:%LUops = $parm2
254:*:%LUchans = $parm2 | if (%luser = on) { ludo | unset %luser }

And place the following in your Aliases section:

luser set %luser on | lusers
ludo {
set %ludo $?="Send summary to [$active] ? (y)es/esc"
if (%ludo = $null) { echo 2 $active Currently there are %LUusers users on %LUchans channels, with %LUservers servers connected and %LUops IRCops online, as reported by $server. }
elseif (y isin %ludo) { msg $active Currently there are %LUusers users on %LUchans channels, with %LUservers servers connected and %LUops IRCops online, as reported by $server. }
unset %ludo
}

When you want an /lusers summary, just type /luser and a neat
summary will be displayed to you or sent to the active window.

End of Scripting Examples

Now, it's your turn to take a shot at it.   Script away, if you have questions when writing a script, I suggest you stop by **#mIRC** (the mIRC help channel on DALnet, EFnet, and Undernet).   **#mIRC** does not support pre-fab scripts, including the ones here.   It is a help channel for individuals writing their own scripts or with questions relating to **mIRC** software.   However, you should be aware of the mIRC motto: **"Read the FAQ"**.*

For more information on scripting, mIRC, see the Web Links page of this help.   You can hop directly to the web from this help file (using your web browser).   I have included a number of sites there that I have found to be valuable.

***FAQ** means Frequently Asked Questions, it comes in both write and help formats, produced by Krejt Vonck.   It is the equivalent of the User's Manual found with most software and it is the mIRC user's premier reference.   On-Line viewing is available at:
http://www.mirc.co.uk/faq.html

WEB Links

Here are a list of WEB links that I have found worthwhile. By simply clicking on them, you can go right to the web from here. If your browser isn't on, it will be opened automatically. If you experience problems with this (and even if you don't) read the Installing & Using This Help section of this help file.

Web Pages listed here are primarily about mIRC software, scripting, and/or features. However, I've included links to the Web Pages for the big three IRC nets and their ftp sites. I've also added some other helpful sites (such as the Win95 site which is in both 16 and 32 bit versions).

You need one of three WEB browsers for these links to work:
<div align="center">

Netscape   MicroSoft Internet Explorer   Mosaic
</div>

Source Material:
RFC 1459 is available at   http://ds.internic.net/rfc/rfc1459.txt

S_ERR.C and **NUMERIC.H** files are part of **IRC2.9.32** which is available at various ftp sites including DALnet's. They are authored by **avalon**.

mIRC Info:

mIRC homepage: http://www.mirc.co.uk

mIRC FAQ On Line: http://www.mirc.co.uk/faq.html

Laurence Simon's Tips and Tricks: http://www.phoenix.net/~lsimon/mirc.html …Wit, Candor, and a Wealth of Info…I really recommend a visit here!

Spark`s page: http://www.xmission.com:80/~sparky/
His scripts page is a channel operators dream!

The mIRC Info Center: http://mirc.stealth.net/

Pacman's Page: http://www.mis.ca/dialin/pacman/irc.html
DALnet user's should definitely get his DALnet Services Help and DALnet Popups files.

Poolshark's page includes an excellent guide to etiquette along with many other handy tips:
http://www.pacificnet.net/~turquidi/mirc.html

Looking for a good mIRC Tutorial? Ducky's: http://kpt1.tricon.net/Personal/ewheeler/tutorial.html? and don't forget to check out the rest of his page.

mIRC Links Page: http://www-2.nijenrode.nl/software/mirc/links.html
Here's some more places to check for **mIRC** info.

Scripters Info:

Scripts? Write your own! Okay, everyone needs a little inspiration now and again.
Try CTFire's page: http://www.ctfire.com/
Check his help file section out too.

IRC Net Sites
(okay folks, net's are listed alphabetically)

DALnet Homepage: http://www.dal.net/

DALnet FTP Site: ftp://ftp.dal.net/

EFnet Homepage: NONE FOUND

EFnet FTP site: NONE FOUND

Undernet Homepage: http://www.undernet.org?/

Undernet FTP site: ftp://ftp.undernet.org/

Other Sites:

Win95:

Windows95: http://www.windows95.com/connect/tcp.html
A tutorial about setting up your DialUp Networking. Other handy info there as well.
Windows95 TCP/IP Setup FAQ: http://www.aa.net/~pcd/slp95faq.html

Windows95 Annoyances: http://www.creativelement.com/win95ann/index.html

Virus Checkers: "A ounce of prevention is worth a pound of cure"
McAfee: http://www.mcafee.com

Norton: http://www.symantec.com/avcenter/index.html

AnitVirus Center: http://www.antivirus.com/

Creating Help Files:
How did I create this Help, and what about the really spiffy keen browsing capability?
Here's the answer, **WinHelp Office** featuring **RoboHelp** version 4.0 by Blue Sky Software:
http://www.blue-sky.com
Tell them **Jeepster** sent you, it'll confuse the heck out of them!   Oh…and **no**, I don't do warez! RoboHelp
and WinHelp Office are commercial (not shareware) programs bought and paid for by the sweat of my
brow.

Misc:
Jeepster's Numeric Page: http://www.teleport.com/~jeepster/numeric.html

Teleport: http://www.teleport.com/
A plug for my primary provider.   They actually answer support calls patiently and are generally pretty
good folks.

Providers: http://thelist.iworld.com/
Looking for a provider's address?   Well, here's the place to find it.

Acknowledgements

This help is the product of many people's efforts.   The primary information came from **the RFC 1459** by **J. Oikarinen** and **D. Reed**.   More information was obtained from the **s_err.c** file by **Darren Reed .**   See the Web Links for source's of

Specifically, my thanks to **DougGuy** from DALnet, who's time and effort greatly improved this help file. Where you see *blue text* in the numerics section, it is likely due to his efforts that information is included. Also to **NeuTRiNo** for providing essential source material.

Other's supporting this effort are **Ogre**, **Despayre**, **Hexadec**, and **OkeyDoke,** who contributed scripts without being slapped silly by a trout to do it. **Dancr's** suggestions for Web Links was particularly helpful. **Vick** and **Pacman's** efforts finding me information about the numeric 310 is appreciated. **Dayton**, from #help on EFnet was quite patient with me too.   **Mardam-Bey** pointed me in the right direction, while **LadyFizz** assisted verifing the links between this and the mirc.hlp file .   **a2Jfreak's** review corrected a number of errors, however, any errors or omissions remaining should be considered solely *mine*.   And many individuals contributed time and comments.   Thanks folks, J!

I want to acknowledge the many fine #mIRC channel op's and IRCop's on all the various net's.   They have put up with me patiently while spending many hours helping folks, all as volunteers who make IRC and mIRC work for the individual user.

This help file was created using **WinHelp Office** version 4.0 (aka **RoboHelp**).   For more information about this product, see the link to their Web Page in my Web Links page of this help.

Installing And Using This Help

Purpose:

The numeric help file is a reference file for the numeric code replies received from a server.   The replies are to either commands you send such as a /whois <nick|channel> or an error reply from the server. This help file does not cover available raw commands to a server.

Installing:
     Important Notice: *Windows 3.x*   After the initial installation you will need to **restart** windows once to keep the "Routine Not Registered" error message from playing.   After you restart, the associated dll file is registered and the message will no longer appear.

This installation package consists of three files.   The **numeric.hlp** is the help file.   To allow for connecting to the URL's mentioned in this file (using your browser), a **dll** file specific to either **Windows 3.1 (inetwh16.dll)** or **Win95/WinNT (inetwh32.dll)** is included.   In case you have more than one Web Browser registered on your system, a file (**setbrows.exe**) is included that allows you to set the browser this help file will use. It is likely you will not need setbrows.exe.

Windows 3.1		**Win95/WinNT**
16numrc2.zip		**32numrc2.zip**
consisting of:		consisting of:
numeric.hlp	**<<the help file>>**	**numeric.hlp**
not used	**contents file>>**	**numeric.cnt**
inetwh16.dll	**<<enables browsing>>**	**inetwh32.dll**
setbrows.exe	**<<sets browser>>**	**setbrows.exe**

For the URL browsing feature to function you will need to have one of three browsers on your system: **Netscape // Microsoft's Internet Explorer // Mosaic.**   If you don't have any of these, the help file will still work but the browsing feature will not.

The file **inetwh16.dll** or **inetwh32.dll** must be in the same directory as the **numeric.hlp** for the browsing capability to work. It is likely you will not need **setbrows.exe**.

After downloading the appropriate version, unzip (extract) it to the directory you keep **mIRC** in.

Opening:

Once you have unzipped the files to the mIRC directory, the **numeric.hlp** file is automatically available to you. You can access it from mIRC two different ways.   From the menubar, under Help, it will appear as the selection: **numeric**.   You may also simply type on any edit line (the blank lines you type messages to the channel or message windows in): **/numeric** or **/numeric <topic or numeric code>**.   No, don't include the **< >** when you type a topic in.

You can also access the **numeric.hlp** from your File Manager (Win 3.1) or from Explorer (Win95). Simply locate the **numeric.hlp** file using either of those applications and then double click on it.   Voila! It opens!

Using the reference

The numeric codes are in four sections: 400 series, 300 series, 200 series and Reserved.   The few 500 series codes I know of are included in the 400 series page to simplify things

You can use the Index to jump to the correct section.   However, it will take you to the beginning of that section and not to the specific numeric you click on.   You will have to scroll through the section to find the numeric you are looking for.   The numeric codes are in a rough sequence unless the code is associated with a specific function such as a **Whois** reply.   Because the numeric codes are not completely sequential for a **Whois** reply, they are grouped by that associated function.   The sequence is primarily based on the original reference for numerics, **RFC 1459**.

It is often easier to find specific numerics or popular topics such as **Whois** associated codes, **Stats** codes, and so forth by using the Fast Reference page.   For example, type **/numeric whois** and you will go directly to the Fast Reference page where the Whois topic is located.   Click on **Whois** and you will go to the first numeric related to it.   Click on the button beside the **Whois** and you will see a popup that lists all related **Whois** numeric codes.

If you type: **/numeric 352** you will go to the beginning of the Series 300 numerics, not directly to the entry for code 352.   If you don't want to scroll through the page to find 352, click on the Fast Reference in the Non-Scrolling region of the page.   That will take you to the complete list of 300 series codes in the Fast Reference page.   Then simply click on the 352 and you will go directly to that entry.

Also, you can make notes to this help file by using the edit, annotate feature to save information directly into the help file.   For more information about this, press the F1 key while in the help file.

I have noticed that numerics have varied occasionally from one server to another, even on the same net. The differences were minor.

The Web
Browsing capabilities are supported for:
- **Netscape**
- **Internet Explorer**
- **Mosaic**

A number of URL's for relevant Web Pages are included.   To go to one of these pages, you must do two things.   First, you need to be connected to your internet service provider.   Second, you need to click on the URL.   A URL looks like: **http://www.mirc.co.uk** .   An ftp URL would be similar to   **ftp://ftp.dal.net** Simply double click on the URL and your Web Browser will start if it isn't already open and it will go to the URL you clicked on. Any URL you see in this help may be visited simply by clicking on it. Handy, isn't it?

If you have more than one Web Browser on your system and you receive an error message when you click on a URL in the help, use the file **setbrows.exe** to specify which browser you want this help file to use. || setbrows.exe Info ||

(Note: if you received only the **numeric.hlp** file and not the complete package, you should find the correct installation package for your system on the web.   I strongly suggest getting files from a known source versus just grabbing them from an unknown individual on the net.)

I have tried to select URL's that are likely to remain valid.   However, if a web page changes it's URL or closes, you cannot modify it in the help.   I will update the **numeric.hlp** and it's URL's as time goes along, but not because one or more of the URL's in this file becomes invalid.

Scripts

I have included a few sample scripts to help encourage your use of mIRC's Remote RAW section. These scripts are specifically designed for mIRC.   The numeric code information contained in this help file should be valid regardless of what client (software) you use to connect to a server (IRC).   If you use another client to connect to IRC, that's fine, but the scripting and links information included is mIRC

oriented.

The scripts included here are through the generosity of the various authors. They are provided only as a guide to help you in writing your own scripts.   There is no guarantee or any particular assurance that they are valid for your system. **Do Not Use Any Script You Don't Understand**.   Including these.

Thanks

I hope this help file is useful to you. Feel free to share it, but distribute only the complete package, i.e. **16numrc2.zip** or **32numrc2.zip**.   Please try to pass the correct type (16 or 32 bit) to whomever you share it with.   See the Disclaimer section for details. Above all, enjoy your time on the Internet.

S. M. Allen   a.k.a. **Jeepster** (DALnet/Undernet)   **Jeepz** (EFnet)

email: jeepster@teleport.com
(please put "**numerics**" in the subject line of any email comments)

Disclaimer

This help file and the associated browser files distributed with it are not warranted in any form what so ever.   They are distributed free of charge, with all risk assumed by the user (that's you).   I have no way of knowing what your system's status is, what your scripting abilities or disabilities are, nor can I assume any responsibility for the use of this help file and associated files.   Once the original files have left my computer, I have no control over them and cannot guarantee their validity.

The associated browser files, whether part of the 16 bit or 32 bit package may not be distributed except as part of the Numeric Help package.   Feel free to use information from the Numeric Code sections as you will.   If you copy and paste information from the other sections (except specific URL's of course), please acknowledge me as the author. If you share example scripts donated by other authors for this help, please acknowledge them when you do so.

The help file and associated browser files may not be distributed as part of a commercial enterprise without the written authorization of the author.

#mIRC Op's

Thanks to LadyFizz, Dancr, Javier, Okeydoke, Poolshark, Sparky, Li0nHeart, Pacman, Hexadec, bigmac, `Luta, WOT, AlleyCat, lewwid, a2jfreak, Trekkie, Owl, Hawk`, St0rmCat, Drogo, SaltyDog, Phoenix, RoWDoG, ZAR, DocSavag, Karen, Kimmy, and all the other mIRC operators who make my time on the net so informative and rewarding.

IRC Operators

Thanks to DougGuy a.k.a. "Studded", Despayre, Vick, Residue, SgtAaron, Biffa, StarFox and the other IRCop's that make IRC work.

Numeric 000 - 099

Reserve numerics 000-099 for server-client connections where the client is local to the server. If any server is passed a numeric in this range from another server then it is remapped to 100-199. -avalon

SetBrowsInfo

It is unlikely you will need to use setbrows.exe.   If you have more than one browser (navagational tool) and wish to select a specific one or if for some reason you receive an error message requesting a browser, use this option to specify the browser the help file will use.

1. To use setbrows.exe, double click on **setbrows.exe** in File Manager (Win3.1) or Explorer (Win95).
2. A dialog box will appear requesting you to locate one of the three supported Internet Browsers.
3. Do one of the following:
   - Enter the path and name of the browser or navigational tool
   - Click **Browse**; using the drives and directories, select the browser or navigational tool.   Click **OK**.
4. Click **OK**.

Hexadec Note

If you're wondering why I used **writeini/$readini** instead of variables, it is because using ini's works about two times faster than using variables!

With my 486/25mhz with 4 megs of ram it takes me about 15 seconds to scan a channel with 200 clients using variables.   But using write/readini it only takes 6 (I'm talking about the IAL scanner here, not the /who #channel scanner).

This is with the *EXACT* same routine.   Of course with a faster computer it would be *alot* quicker. Using ini's is faster because mIRC uses windows ini routine which is faster than the one it uses for variables.   You can thank **bfriendly** for telling me using ini's is faster and **Khaled** for telling me why   =)

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This will jump automatically to the Topic "Access Levels" in your mirc.hlp file.   For this jump to function, both numeric.hlp and mirc.hlp must be in the same directory.

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