NAME

ewho – EMTS who program

SYNOPSIS

ewho [*options* **] [** *stubname* **]**

DESCRIPTION

ewho is a program that returns information on who is using the Ethernet Multi-user Transputer System (EMTS). If no *stubname* is specified, **ewho** sends a broadcast request to all EMTS stubs on the network requesting status information. If *stubname* is specified, ewho sends a request to only the specified stub. *stubname* must either be the name of the host as registered in the **hosts(5)** data base, or it must the IP address of the host in the conventional 'dot' notation (see EXAMPLES below).

OPTIONS

–b *address*

Sets the IP broadcast *address* (in the conventional 'dot' notation) to use for contacting stub machines on the network. This option can be used to override the value of the EMTS_BROADCAST environment variable (see ENVIRONMENT below). This option is ignored if an explicit stub name is also specified.

–t *timeout*

Specifies the *timeout* to use (in seconds) while waiting for reply packets in response to a broadcast request. The default is to wait forever (in which case **ewho** can be stopped by sending it a SIGINT from the keyboard). This option can be used to override the value of the EMTS_TIMEOUT environment variable (see ENVIRONMENT below). This option is ignored if an explicit stub name is also specified.

–q Do not print any information to the standard output stream, only set a return code to indicate success or failure. **ewho** returns *-1* to the shell if no free targets can be found, or *n* to the shell to indicate that the target transputer system with identifier *n* is available for use. This option could be used (together with the **-t** option) by a script which polls stub machines looking for free targets on the network (see EXAMPLES below). The return code is not very meaningful unless an explicit *stubname* is also specified.

–h[elp] Print help information and exit.

ENVIRONMENT

EMTS_BROADCAST

The broadcast IP *address* (in the conventional 'dot' notation) to use when transmitting broadcast packets to the network. The value of EMTS_BROADCAST is overriden by the value of the command-line option **–b.**

EMTS_TIMEOUT

The timeout to use (in seconds) while waiting for reply packets in response to a broadcast request. The value of EMTS_TIMEOUT is overriden by the value of the command-line option **–t.**

EXAMPLES

example% *ewho -b 145.123.56.0 -t 2*

Broadcast status requests using the IP broadcast address *145.123.56.0*, printing the result to the standard output stream and terminating after 2 seconds.

example% *ewho -q jupiter*

Poll the stub host machine *jupiter* and set the return code to be equal to the numeric identifier of the first free target transputer system available at *jupiter*, or *–1* if no free targets are available. The result is not printed to the standard output.

CONFIGURATION

ewho looks up the service name *ewho* in an attempt to determine which port number to use when

sending request packets to stub machines; if the service lookup fails, the default port number **1072** is used. See **services(5)** for more information.

IMPLEMENTATION

All the EMTS programs use the BSD socket libraries and the TCP/TP protocol suite for handling communications over the network. They should be portable to a wide variety of platforms that support these libraries.

The current version of ewho runs on MS-DOS (using either FTP's PC/TCP or Sun Microsystem's PC-NFS networking environments) as well as Unix System V Release 4.

IDENTIFICATION

Author: Brendan Murphy.
Revision Number: 2.1; Release Date: 1993/11/01.
Copyright © Brendan Murphy 1991-1993. All Rights Reserved.

SEE ALSO

eserver(1), ewho(1)
EMTS User Guide.