**NAME**

strace – print STREAMS trace messages

**SYNOPSIS**

**strace** [ *mid sid level* ] ...

**AVAILABILITY**

SUNWesu

**DESCRIPTION**

**strace** without arguments writes all STREAMS event trace messages from all drivers and modules to its standard output. These messages are obtained from the STREAMS log driver (see **log**(7D)). If arguments are provided, they must be in triplets of the form *mid, sid, level*, where *mid* is a STREAMS module ID number, *sid* is a sub-ID number, and *level* is a tracing priority level. Each triplet indicates that tracing messages are to be received from the given module/driver, sub-ID (usually indicating minor device), and priority level equal to, or less than the given level. The token **all** may be used for any member to indicate no restriction for that attribute.

The format of each trace message output is:

<*seq*> <*time*> <*ticks*> <*level*> <*flags*> <*mid*> <*sid*> <*text*>

| | |
|---|---|
| <*seq*> | trace sequence number |
| <*time*> | time of message in *hh:mm:ss* |
| <*ticks*> | time of message in machine ticks since boot |
| <*level*> | tracing priority level |
| <*flags*> | E : message is also in the error log<br>F : indicates a fatal error<br>N : mail was sent to the system administrator (hardcoded as root) |
| <*mid*> | module ID number of source |
| <*sid*> | sub-ID number of source |
| <*text*> | formatted text of the trace message |

Once initiated, **strace** will continue to execute until terminated by the user.

**EXAMPLES**

Output all trace messages from the module or driver whose module ID is 41:

**strace 41 all all**

Output those trace messages from driver/module ID 41 with sub-IDs 0, 1, or 2:

**strace 41 0 1 41 1 1 41 2 0**

Messages from sub-IDs 0 and 1 must have a tracing level less than or equal to 1. Those from sub-ID 2 must have a tracing level of 0.

**SEE ALSO**

**log**(7D)

*STREAMS Programming Guide*

## NOTES

- There is no restriction to the number of **strace** processes opening the STREAMS log driver at a time.
- The log-driver records the list of the triplets specified in the command invocation, and compares each potential trace message against this list to decide if it should be formatted and sent up to the **strace** process. Hence, long lists of triplets will have a greater impact on overall STREAMS performance. Running **strace** will have the most impact on the timing of the modules and drivers generating the trace messages that are sent to the **strace** process. If trace messages are generated faster than the **strace** process can handle them, some of the messages will be lost. This last case can be determined by examining the sequence numbers on the trace messages output.