

monitor

keys:	channel <number>	enable specified monitor channel (disable if negative number)
options:	show	print out monitor status
	on	turn monitoring on
	off	turn monitoring off
	all	enable all monitor channels
	none	disable all monitor channels
	rowio	enable monitoring of row input/output operations
	opens	enable monitoring of picture openings
	range	enable monitoring of calls to module RANGE
	processing	enable monitor output from new processing modules

Use the **monitor** command in installations where Semper has monitor support. Using this command, you can switch on and off the monitoring of system operation. Monitoring can be useful for debugging programs.

Note that the **monitor** facility is intended primarily for *Synoptics'* internal use. It is provided to customers only on an *as is* basis, in case it is found helpful, without any kind of warranty whatsoever.

Examples

```
monitor show
```

This command prints the current monitor status.

```
monitor rowio on
```

This command enables monitoring of picture row input/output operations and turns monitoring on.

```
monitor none range
monitor on; ..... ; monitor off
```

This command disables all monitoring except for **range** calls for a given series of commands.

```
monitor off
```

This command turns off all monitoring, but does not change the status of individual channels.

Semper 6 Command Reference

monitor

Description

Semper makes available the following named monitor channels:

No	Name	Description
1	<i>processing</i>	available for user-written extension routines
2	<i>rowio</i>	verifies calls to SEMROW (row input/output)
3	<i>opens</i>	verifies calls to SEMOPN/DEL (opens/deletes pictures)
4	<i>range</i>	verifies calls to RANGE, determines and records picture ranges

The options **on** and **off** switch all monitoring on and off. Printout usually goes to the terminal (to the monitor output stream in fact – see the **echo** command). All monitoring is turned off when Semper starts up.

Use the options **processing**, **rowio** etc. to enable or disable the monitoring of specific sets of information, for example, **monitor opens norange**. The options **all** and **none** turn all information on and off together. Use the **show** option to obtain a list of monitoring activities and monitor channels.

Additional monitor 'channels', numbered from 5 to 16, can be used by system or user routines. These are turned on or off using the **channel** key, for example, **monitor channel 5** to enable channel 5, or **monitor -8** to disable channel 8. Currently the following channels are in use:

- 5 verifies calls to routine DISC
- 6 verifies calls to routine TAPE
- 7 verifies calls to routine MCDC61

Note that you can add the following test to a Fortran routine that you are writing, to verify whether monitor output is to be generated:

```
IF (MONIT) THEN
  IF (SEMMON (TEXT, NAME, ICHAN) ) RETURN
ENDIF
```

The call to SEMMON passes the monitor message as a character string in TEXT, the name of the subroutine in NAME and the monitor channel number in ICHAN. SEMMON will output the monitor text if the specified monitor channel is enabled.

Defaults and Ranges

keys/options	defaults	range
channel	<i>none</i>	integer in range 1 to 16