

Mode Termination

@LIMIT_SPECS

Set a limit that will terminate the mode.

Keyword:

@LIMIT_SPECS

Usage:

Specifies a list of variables which may have limits set on them. Up to 32 variable specifications may be used per keyword. If the limit is violated for the period specified, then the mode is terminated. If the next_path field is 0 or "-", then the default_next_mode is executed, otherwise control is passed to the mode or test procedure specified for the limit that was violated. The limit value may be expressed as a constant, variable label, or computed expression.

Data Fields:

variable	the real variable on which to set the limit
value	the limit value (constant/variable/expression)
type	upper or lower limit (U/L)
interval	the rate at which to check the limit (FAS/MED/SLO)
period_out	the period for which the limit must be violated before the action is taken
next_path	an optional path to execute if this limit is violated

Example Specification:

```
@LIMIT_SPECS
#label  value      type    interval  period_out  next_path
RPM      2400[rpm]  U      MED      10[sec]     /specs/gp/gp_shutdown
oilrfl_p  60[psi]        U      MED      5[sec]      /specs/gp/gp_reset;25
```

Set an upper limit of 2400 rpm on engine speed. Execute the gp_shutdown test procedure if this is exceeded for at least 10 seconds continuously. If oil rifle pressure exceeds 60 psi for 5 seconds, then run the gp_test procedure starting in mode 25.

Notes:

The processing of the limit occurs only during the mode in which it is specified. It is enabled when the mode starts and disabled when the mode terminates.

Violation of a limit will not cause the display to blink.

Other Examples:

```
@LIMIT_SPECS
#label      value      type    interval  period  next_path
coolant_t   60[deg_F]  U      SLO      0[sec]   22
RPM         400[rpm]  L      SLO      0[sec]   /specs/gp/gp_done
oil_p       "oil_model-5[psi]" L      SLO      0[sec]   RETURN
```

Branch to mode 22 if the coolant temperature exceeds 260F during this test mode and jump to procedure gp_done if the engine speed drops below 400 rpm.

If the oil_p variable is more than 5 psi below the oil_model variable, return to the calling procedure.