

Creation	@CREATE_EXPRESSION
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Create computed expressions that will be used during a specific gp_test.

Keyword:

@CREATE_EXPRESSION

Usage:

This keyword was created in response to the amount of volume and complexity that has been created in gen_labels.NNN. Sometimes it is advantageous to have computed expressions that exist only during the duration of a specific test.

Data Fields:

variable	The variable name of label used
type	The variable can be REAL, INTEGER, LOGICAL or STRING
units	The type of units to be used with the created variable.
event/timer	The event name or timer designation that will evaluate the expression
expression	The computed expression to be used

Example Specification:

```
@CREATE_EXPRESSION
#(up to 16 per procedure)
@label    type    units    event/time    expression
myvar     REAL    rpm      1000          "if RPM>Idle_Speed then 700[rpm] else Idle_Speed
mydesc    STRING  -        1000          "'test'+count"
```

The variable myvar is created as a REAL with rpm as its units and evaluated once a second. The expression states that if RPM is greater than the value of Idle_Speed then set myvar to a value of 700 rpm otherwise set it to the value of Idle_Speed. The variable mydesc is created as a string variable that includes the value of test added to count.

Notes:

This keyword is the functional equivalent of gen_labels.NNN. However, @CREATE_EXPRESSION does not support a history flag, tolerance and a display format. The display format defaults to 2 places for REAL variables. The true/false descriptions of LOGICAL variables default to ON/OFF. The history flag is OFF and the default tolerance is 1.0. The variable in a @CREATE_EXPRESSION specification will be created if it doesn't already exist. If it does exist, but there is no computed expression associated with it, then the computed expression will be created. If the variable already exists and has a computed expression, then an error is reported. The use of the @CREATE_EXPRESSION keyword causes gp_test to spawn the new task named "comptest".

Special Note:

The keyword @CREATE_EXPRESSION must be placed in the header section of a test procedure file somewhere between the "start_mode" and the first @MODE.