

16.0 ONLINE MENU: STOPPING TASKS

WARNING

IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THE APPLICATION PROCESS STOPS IN A SAFE MANNER WHEN THE APPLICATION PROGRAMS STOP. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY INJURY.

You can stop one or all tasks running in the rack using the stop command from the Online menu. To stop any tasks, the keyswitch must be in the PROGRAM position and the password must have been entered.

Note that you cannot stop individual tasks that were specified as CRITICAL when added to the rack in the Task Manager. Critical task status display described in 11.3. If you want to stop a task that is critical, you must stop all tasks in the rack. See 16.1 for stopping an individual task and 16.2 for stopping all tasks in the rack.

16.1 Stopping an Individual Task

WARNING

DEPENDING ON THE APPLICATION, STOPPING AN INDIVIDUAL TASK MAY RESULT IN LOSS OF CONTROL OF THE APPLICATION PROCESS. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE POTENTIAL HAZARDS INVOLVED. IT IS RECOMMENDED THAT THE STOP-ALL COMMAND BE USED TO STOP TASKS NORMALLY. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY INJURY.

You can stop any individual task that is not designated with a “C” for CRITICAL in the C field of the task status display. Note that outputs controlled by the selected task will retain their last state. To stop an individual task, follow the directions below.

1. Select the task from the Online menu display using the arrow keys to move the “>” pointer.
2. Type “Enter” or <CR> to select the task. The selected task will be shown in reverse video.
3. Type “S” to stop the task. The task “Status” field on the display will show that the task is in STOP.

16.2 Stopping All Tasks in the Rack

When you stop all tasks in the rack by issuing a STOP-ALL command (or the system issues a STOP-ALL due to an error in the rack), all tasks that are running will be stopped, including utility tasks (see 14.3.1). The system will issue a clear command to all Reliance I/O modules in the local and remote chassis, including I/O connected to the PMI rail ports. See table 16.1 for a summary of what happens

when a STOP-ALL command is issued by the operator or the system issues a STOP-ALL. To stop all tasks in the rack, follow the directions below:

1. From the Online menu, select "S" for Stop.
2. The screen will display "No task selected" and the option "All". Enter "A" to stop all tasks. The "Status" field for all tasks will then show that the tasks are in STOP.

Table 16.1- Status of Data in the AutoMax Rack after a STOP-ALL Command or STOP-ALL Fault

	AutoMax Processor	UDC Module	PMI Processor
LOCAL tunable variables	retained	retained	retained
LOCAL variables	retained	reset to 0	N/A
COMMON (global) memory variables	non-volatile are retained; others are reset to 0	N/A	N/A
I/O variables (including UDC dual port memory)	inputs retained and updated; outputs are reset to 0	inputs retained and updated; outputs are reset to 0	all I/O is reset to 0
Input values, including: Feedback registers UDC/PMI communication status registers UDC Error Log info	retained	retained	N/A
Output values, including: Command registers Application registers ISCR registers Scan-per-interrupt register Scans-per-interrupt counter	reset to 0	reset to 0	N/A
Parameter configuration variables	N/A	retained	N/A
UDC test switch information	N/A	retained	N/A
D/A setup configuration	N/A	retained	N/A
Operating system	retained	retained	retained