13.0 ONLINE MENU: INFO/LOG

Entering “I” for Info/Log from the Online menu allows you to display information about the system software on any AutoMax Processor, PC3000 Processor, or UDC module in the rack or to view the status and error log, if any, for a selected task.

13.1 Info/Log Processor and UDC Information Display

If you select Info/Log without having selected a task by using the Enter key or <CR>, AutoMax will assume you want to display information about an AutoMax Processor and the Common Memory module (M/N 57C413B or 57C423), a PC3000 Processor, or a UDC module. You will be prompted for the slot number of the module of interest.

AutoMax Processor or PC3000 Processor

Figure 13.1 shows a sample display for an AutoMax Processor in slot 1 with no Common Memory module. Figure 13.2 shows a sample internal PC3000 Processor.

```
ON LINE Direct via Serial                    C: \LIB\SYS\RACK
Info/Log

Esc  Exit          Control Processor Information for Slot 1

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  CPU Error Code:                N/A      Network Error Code:  N/A
  AB Remote I/O Error Code:      N/A      Network Drop:        N/A
  Software ID:                   422526-001C STD
  Clock Tick (micro sec):        5500
  CPU Utilization:               34%

                 Memory      Memory      Largest
                  Used        Free     Free Block   Battery
PROCESSOR        2924        151280      151280     Replace
COMMON            N/A         N/A         N/A         N/A
```

Figure 13.1 - Info/Log Processor Information Display

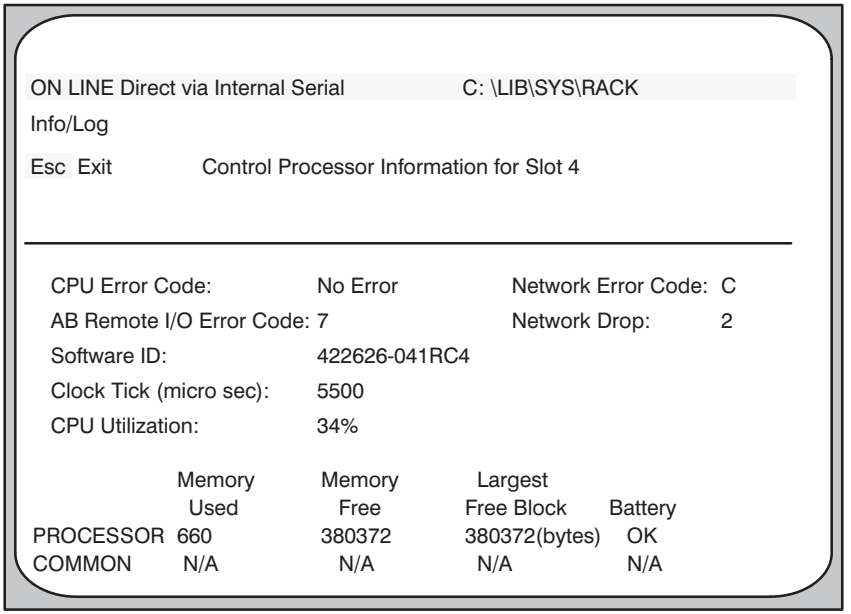

Figure 13.2 - Info/Log PC3000 Information Display

Four fields are used only for the PC3000 Processor. For the AutoMax Processor, these fields will display “N/A”. “CPU Error Code”, and “AB Remote I/O Error Code” display the error codes that would normally be sent to the LEDs on the AutoMax Processor, Network Communication module, and AB Remote I/O module. Since the PC3000 does not have these LEDs, this display is the method which allows the user to examine these codes. “Drop Number” displays the current network drop setting for the PC3000 Processor.

The “Software ID” depends on the version of the software (operating system) that has been loaded to the AutoMax Processor. (Refer to section 1.4.2 for a list of the software part numbers for versions of the AutoMax Programming Executive.) If the Ethernet version of the operating system is loaded, “ENET” will be displayed on the line as well. “STD” will be displayed for the standard operating system. “Clock Tick” refers to the speed of the real-time clock. “CPU Utilization” shows the percentage of the AutoMax Processor currently being used to run application tasks. Note that the CPU Utilization percentage is measured over a two second time window. This value should be kept under 80% to ensure that there are no overlaps in AutoMax task execution.

Memory statistics for the AutoMax Processor and Common Memory module are given in bytes. The field “Largest Free block” refers to the largest continuous block of memory available. The “Battery” field refers to the status of the on-board battery.

UDC Module

Figure 13.3 shows a sample display for a UDC module in slot 6.

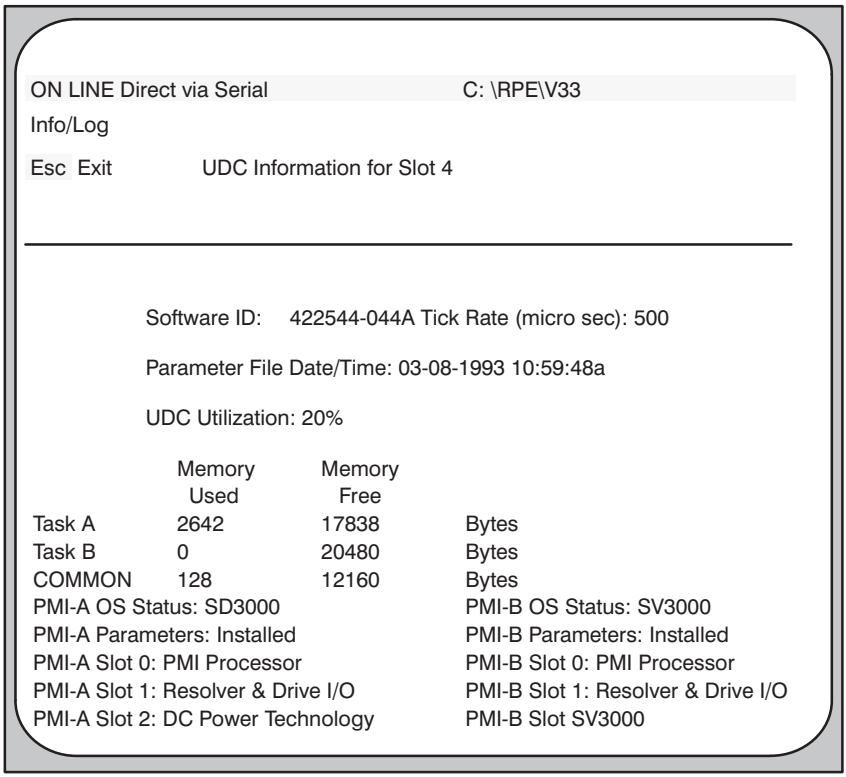

Figure 13.3 - Info/Log UDC Information Display

The “Software ID” depends on the software (operating system) and hardware version of the UDC module. “Tick Rate” refers to the speed of the real-time clock in the UDC module. The “Parameter File Date/Time” will display the most recent date and time that the parameter object file was generated. “UDC Utilization” shows the percentage of the UDC CPU’s resources being used to run UDC tasks. The UDC Utilization percentage is measured over a two second time window. This value should be kept under 75% to ensure that there are no overlaps in UDC task execution. Memory statistics displayed for the UDC module are given in bytes.

The “PMI OS Status” fields show whether the PMI operating system has been loaded to each of the PMI Processors (Not Loaded or the OS type (e.g., SA3000)). If the PMI Processor is not connected to the UDC module, this field will display “Not Connected”. The “PMI Parameters” fields show whether the drive parameters have been loaded to each of the PMI Processors (Installed or Not Installed). If the PMI OS Status field is displaying “Not Connected”, the PMI Parameters fields will be blank. If the PMI Processor is connected to the UDC module, the modules contained in the PMI rack(s) will be listed.

13.2 Info/Log Task Information Display

If you select a task using the Enter or <CR> before selecting Info/Log, AutoMax will display the task status and the error log, if any, for the AutoMax or UDC task. A sample display is shown in figure 13.4.

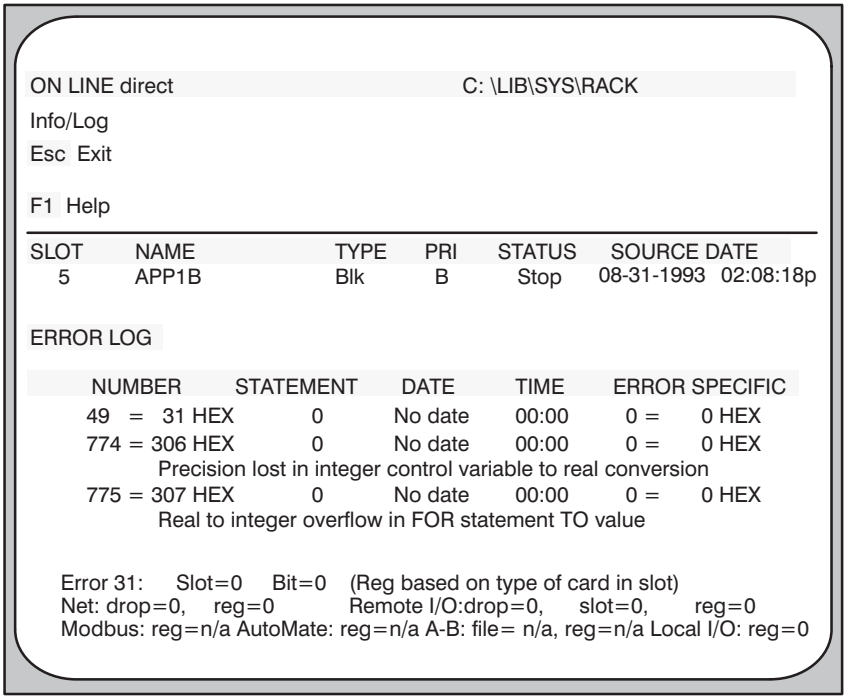

Figure 13.4 - Info/Log Task Information Display

The status line for the task displays the slot of the Processor or UDC module on which the task is loaded in the SLOT field. The task name is shown in the NAME field. The task type (.BAS, .BLK, or .PC) is shown in the TYPE field. The priority of AutoMax Processor tasks, assigned when the task is added to the rack, is shown in the PRI field. For UDC tasks, the drive (A or B) the task is assigned to will be shown. The status of the task, either Running, Stopped or in Error, is shown in the STATUS field. The date that the source file was last edited is shown in the SOURCE DATE field. In the sample display, the .PC task FRCS1LAD loaded on the Processor in slot 1 is designated as priority 7 and is currently running.

If any errors occurred while the task was running, the STATUS field will display Error. An error log is generated and shown on the screen along with the task information. A maximum of three error log entries are saved, in the order of occurrence, for each task. Only the first, second, and last errors that occur will be stored. Any other errors will not be stored.

For each error, the error log displays the statement number where the error occurred (STATEMENT) if it is relevant and can be determined. The DATE and TIME fields will be blank; these functions are not

currently supported. There may be other information supplied for certain errors in the ERROR SPECIFIC field. “31” errors are decoded at the bottom of the Error Log. Note that the error log for AutoMax tasks is maintained through a power cycle; the error log for UDC Control Block tasks is not maintained through a power cycle. The UDC error log is cleared when power is removed from the rack. For more information about clearing the error log, see 19.0.

Like AutoMax tasks, UDC tasks can also access the error log by using the BASIC function TST_ERRLOG@ and the statement CLR_ERRLOG@.