

APPENDIX C: ERROR MESSAGE EXPLANATIONS

- 1: External Clock is selected, but no clock inputs are specified in the Master Clock field; at least one clock input must be specified.
- 2: External Clock is selected, and a clock-input term exists in both the Master and Slave Clock fields; these fields may not have common terms.
- 3: An illegal number of slave bytes has been specified. The prompt to the left contains the legal values for this field.
- 4: An attempt was made to select Internal Clock mode on a Pod that cannot support this mode (68000, 8086). The Internal Clock fields are ignored for these Pods.
- 5: A clock period was selected that cannot be obtained by the hardware. The next nearest value was used.
- 6: The clock period must be set to 10 ns in 100-MHz mode (LP-4050 only). Select a slower pod mode if necessary.
- 7: The clock period must be set to 5 ns in 200-MHz mode (LP-8200 only). Select a slower pod mode if necessary.
- 8: The clock period must be set to 2.5 ns in 400-MHz mode (LP-4400 only). Select a slower pod mode if necessary.
- 10: The limit of 42 functions in a User Sequence has been exceeded.
- 11: There must be at least one level and one function defined in a User Sequence. An attempt was made to remove the last level/function.
- 12: The sequence level removed was referenced by a GoTo function. This reference must be deleted or changed.
- 13: The limit of 14 levels in a User Sequence has been exceeded.
- 14: No more than one counter per level can be set to a value other than 1.
- 15: No more than one timer may be defined per User Sequence.
- 16: The last level of a User Sequence cannot contain an Advance function. Advance means to advance to the next level when the specified condition is met, and has no meaning on the last level.
- 17: An attempt was made to exit the User Sequence screen with an illegal GoTo Level specified. GoTo Levels must reference defined Sequence Levels.
- 21: The maximum timer value is 655 seconds.

22: Counter values less than 15 may be handled internally by using extra sequence levels. The maximum number of levels has been exceeded. Reduce the number of counts or reduce the number of sequence levels. (Maximum number of levels is 7 if hardware counter used, 15 otherwise.)

23: There is only one hardware counter available for counters and timers. Counter values less than 15 may be handled internally by using extra sequence levels. (Maximum number of levels is 7 if hardware counter used, 15 otherwise.)

24: There is only one hardware counter available for counters and timers. Counter values less than 15 may be handled internally by using extra sequence levels. (Maximum number of levels is 7 if hardware counter used, 15 otherwise.)

25: Combinational data qualification and state data qualification may not be mixed in a single sequence level. TRACE ONLY and TRACE ALL BUT are combinational data qualification functions. TRACE ON, TRACE OFF, ENABLE TRACE and DISABLE TRACE are state data qualification functions.

30: The largest field width that may be defined is 32 bits. To view a larger field, use two different field definitions. The space between the two fields will make the large values more readable.

31: Reduce the number of fields or change the display base of some fields, so that all fields are visible on the State and Trigger Screens.

40: A directory name was specified where a nondirectory name was expected. Choose another name which is not an existing directory.

41: An attempt was made to open a file which was not expected to exist. Select another name or remove the existing file.

42: An attempt was made to create a new directory entry when no space is available in that directory.

43: The file specified was not located in the specified directory. Check to see that the file name (and directory path) are correctly spelled.

44: A filename expected to specify an existing directory either does not exist or exists but is not a directory. Use another name (check for typographical errors).

45: The installed diskette is physically write-protected, or the specified file has been marked read-only (by hardware other than the ML4400) in the directory. Slide the tab to block the write-protect hole or use another diskette.

46: No more clusters are available on the diskette. Delete something or use another diskette.

47: The disk controller has been issued a command which did not complete within 10 seconds. This could signify a hardware problem, bad diskette, or the door being opened during the operation.

- 48: The disk drive is indicating a not-ready condition to the controller. Check to see that the diskette is properly installed and the door is closed.
- 49: The directory specified during "Remove Directory" must be empty of all files. Use "Delete File" to empty it.
- 50: An attempt was made to reference an undefined Mark. Use the SET/CLEAR MARK softkey in any Display screen to define a Mark.
- 51: An attempt was made to search, fill or edit in the State Display, and either no data was captured or there are no fields defined in the Format screen.
- 52: There must be data in the Trace Buffer in order to perform a Copy Trace to Reference function.
- 54: This Reference Memory was defined (during the Copy) to not have Don't Care capability; Xs cannot be entered.
- 60: An attempt was made to divide by 0.
- 65: All groups must be stopped before performing a print function. Change to the active group(s), depress STOP, and try the print again.
- 66: The ML4400 has received an Out-of-Paper signal from the Centronics Interface.
- 67: The ML4400 has received a Printer-Not-Ready signal from the Centronics Interface.
- 70: The Capture Module specified in the Clock Source field does not exist in the Cards/Order field.
- 71: The Capture Module number entered does not exist. See the Installed Cards/Pods section (in the Configuration screen) for a list of installed Modules.
- 72: The same Capture Module cannot belong to more than one group. Change the Cards/Order field of the group in question.
- 73: A Capture Module cannot be included in a group unless it has a Pod connected. Remember to power down the ML4400 before connecting a Pod.
- 74: LP-4050 Pods may be grouped with other LP-4050 Pods; LP-8200 Pods may be grouped with other LP-8200 Pods; and LP-4400 Pods may be grouped with other LP-4400 Pods. LP-8025 Pods may not be grouped together; Microprocessor Pods may not be grouped together. (See Configuration for more information.)
- 76: An attempt was made to delete all groups in the Configuration screen. At least one group must remain defined, or the sky will fall on your head.
- 80: Timing Line labels are editable on the two user-defined pages only. The labels on the fixed pages (3 and up) are fixed, and correspond to the probe numbers they display.

81: The HS-4400 does not have TimeStamp hardware (the SC4400 does). To time-align Trace from a Pod connected to an HS-4400, the data must have been captured asynchronously (in Internal Clock mode).

82: Both groups involved in a split-screen data display must contain traces with time-aligned data. At least one of the groups is still active. See Help on Split.

83: Trace data in the two groups is not time-aligned. Most likely one group was started and captured new data, without the other group starting.

84: Trace data in the two groups is not time-aligned because one of the groups is displaying a Reference Memory. Reference Memories cannot be displayed in split-screen mode.

87: Trace data in the two groups is not time-aligned because the STOP key was used in at least one of the groups. The groups must cross-trigger in order to be displayed together. See Sequence and Split.

88: This is a hardware error; contact Arium for help at 1-800-TO-ARIUM

89: The target processor is powered down, or the microprocessor clip is not connected properly. To ignore this message, depress START twice.

90: START was depressed when the ML4400 was already started. Depress STOP to stop the ML4400.

91: STOP was depressed when the ML4400 was already stopped. Depress START to start the ML4400.

92: The Trigger Word specified is unavailable because it forms the second half of a range. Specify another Trigger Word, or return to the Trigger screen and remove the range.

93: The Trigger Word specified is unavailable. It does not exist with the current combination of Pod type and Pod format. The Pod mode (selected in Format) may possibly be changed to allow for more Trigger Words (but at a slower clock rate).

94: The Internal Clock Rate specified is too fast for the current width of the pod. Either reduce the Clock rate, or select a narrower Pod Mode in the Format Screen.

95: Data Qualification is not available at 100 Mhz.

96: A Trigger Word Range is not available at 100 Mhz.

97: Only one Pod is allowed to have an Internal Clock Rate that is a nonmultiple of 50 MHz. Change the Internal Clock Period in one of the groups, or place one in External Clock.

98: A probe number specified in the Format screen is not available in the current configuration. See the Configuration screen for current width.

99: Higher Internal Clock Rates are available only at the narrower widths; e.g., 100 MHz is available only on the SC-4400 in LOGIC20 mode. Change the Internal Clock Period, or change the Pod mode in the Format screen.

100: There was no data collected in the Trace Buffer. This usually means that there is no External Clock or that a Microprocessor Pod connector is clipped on wrong.

104: Each ROM Emulator Pod contains 16 Kbytes of memory. This is enough to emulate one 27128, two 2764s, four 2732s or four 2716s.

105: Two ROM Emulator Pods are required for 32-bit data width. Both Pods must be part of the same Memory.

106: Each ROM Emulator Pod contains 16K of memory, enough to support a single 27128. Two Pods will support a 27128 pair (16-bit data width), but 32-bit wide data and 27128s are not allowed together.

107: Two ROM Emulator Pods are required for 32-bit data width. Both Pods must be part of the same Memory.

110: An address was specified that does not exist in any of the ROM definitions in the ROM Emulator Configuration screen.

111: The two ROM Emulator Pods are part of the same address space (as specified in the ROM Configuration screen). It is not necessary to change Pods to edit data in the other Pod. Cursor to an address field, enter a new address, and exit the field.

112: There are no ROM Emulator Pods connected to the ML4400. Power down the ML4400, and connect the Pod(s).

120: The setup file just accessed has been corrupted; all data in this file is lost. This message at powerup means that the current settings of one of the groups (the last-saved settings at powerdown) have been lost.

121: An attempt was made to load a nonexistent setup file. Data must first be saved with SAVE SETUP.

122: An attempt was made to load a setup file whose Cards/Order field value differs from that of the current group. See the Configuration screen.

123: An attempt was made to load a setup file whose Capture Module type differs from that of the current group. See the Configuration screen.

124: An attempt was made to load a setup file whose Pod type differs from that of the current group. See the Configuration screen.

125: A setup file originally saved in one group was reloaded into a different group. The Arm On Group and Trigger On Group fields have been set to default values. All other settings have been loaded successfully.

End of file

126: All setup files and all Reference Memories saved in nonvolatile memory have been lost. The cause could be a nonvolatile memory failure, a battery failure, or that the initialized nonvolatile DIP switch on the rear panel is in the active position.

127: An attempt was made to download a setup file which did not have the magic number (055H) at its start.

128: The setup file just downloaded had the magic number (055H), but was too large; it has been discarded.

130: The Min and Max fields are not visible on the screen because the selected display format does not allow enough room. All Min and Max fields have been set to 1.

131: The Min and Max fields of all search words are 0; there is nothing defined to search for.

140: There is not enough memory available to store this Reference Memory. Select a smaller range to save, or clear older Reference Memories.

141: There is not enough memory available to store this Reference Memory. Turning Don't Care capability off will reduce the file size to 1/2.

142: There is not enough memory available to store this Reference Memory. Turning TimeStamp capability off will reduce the file size by 4 bytes per cycle.

143: An attempt was made to access or specify a Reference Memory which has not been defined. Use the Reference Storage screen to define Reference Memories.

144: An attempt was made to load a Reference Memory whose Capture Module type differs from that of the current group. See the Configuration and Reference Storage screens.

145: An attempt was made to load a Reference Memory whose Pod type differs from that of the current group. See the Configuration and Reference Storage screens.

146: An attempt was made to load a Reference Memory whose Trace width differs from that of the current group. See the Configuration and Reference Storage screens.

147: A checksum error occurred while trying to load a Reference Memory, and the Memory is lost.

148: An attempt was made to download a Reference Memory with an invalid magic number (0AAH) at the file's start.

149: The Reference Memory just downloaded had the magic number (055H), but was too large; it has been discarded.

150: The Disassembly Display screen is available only in groups with a Microprocessor Pod connected, and only when the correct Disassembly ROM is installed. See the Installed Options screen.

- 160: Arium internal error; an option ROM has an incorrect checksum.
- 161: Arium internal error; an option ROM failed on initialization.
- 162: Arium internal error; an option ROM provided an illegal Screen ID.
- 163: Arium internal error; an option ROM provided an illegal Special Function ID.
- 164: Arium internal error; base code ROMs do not checksum.
- 170: The Starting Trace Cycle specified is not in the Trace Buffer; specify a new cycle.
- 171: The Ending Trace Cycle specified is not in the Trace Buffer; specify a new cycle.
- 172: The Starting Reference Cycle specified is not in the Reference Memory; specify a new cycle.
- 173: The Ending Reference Cycle specified is not in the Reference Memory; specify a new cycle.
- 178: The ML4400 has detected a problem with the formatting, boot sector, FAT sectors, or directory entries on the installed diskette. Reformat the diskette or use another.
- 179: The root directory ('\\') and current directories may not be removed. Use "Change Directory" to move to another directory.
- 180: This error should never occur. Contact Arium for help (1-800-TO-ARIUM).
- 181: The filename specified contains characters which are invalid, or a wild-card character where none is allowed. Use another name (check for typographical errors).
- 182: An error was detected by the disk controller during the execution of a read, write or seek operation. After several retries the error persisted, and the controller was unable to complete the operation. Try again or use another diskette.
- 183: The source and destination (or 2 sources) of the command must be different files.
- 185: This command does not support the use of wildcards (* or ?) as entered in one of the name fields.
- 186: The printer port may not be specified as a source in the Copy command.
- 187: If the multiple files are to be copied the destination must be a directory.
- 188: The Compare command requires that the files to be compared must be the same size.

189: A directory was specified as a destination for a command where a single file must be used.

190: The ML4400 received a break character during a transfer; the transfer has been aborted.

191: A Framing Error occurred during a transfer; the transfer has been aborted. Check the RS232C settings.

192: A Parity Error occurred during a transfer; the transfer has been aborted. Check the RS232C settings.

193: An overrun error occurred during a transfer; the transfer has been aborted. Check the baud rate, and enable RTS/CTS or XON/XOFF if necessary. (See RS232C Settings screen.)

195: The ML4400 received a data record with an invalid checksum; the transfer has been aborted.

201: Performance analysis is not available with the HS4400, since it does not contain the required data qualification hardware.

202: At least one range must be defined prior to performing a Time Analysis.

203: Cycles were found in the trace buffer which did not match the beginning or ending cycle of a range. This is an Arium internal error message indicating a possible hardware problem.

204: One hundred start of range cycles were detected without finding a corresponding end of range cycle. This can occur with recursive code, when both the Begin Timing On and End Timing On fields are set to the same value, or when the End Timing On condition is never encountered.

205: This indicates that an end of range cycle was detected without a corresponding start of range cycle. This can occur when ranges are defined which overlap one another.