

**IAS/RSX-11 ODT  
Reference Manual Supplement**

Order No. AA-P193B-TK

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# **IAS/RSX-11 ODT Reference Manual Supplement**

Order No. AA-P193B-TK

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This supplement to the *IAS/RSX-11 ODT Reference Manual* identifies specific sections of the manual that do not apply when using ODT in the context of the Professional Developer's Tool Kit.

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## IAS/RSX-11 ODT Reference Manual Supplement

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This manual identifies those areas of the *IAS/RSX-11 ODT Reference Manual* that do not apply in the P/OS operating environment.

Although P/OS is based on RSX-11M-PLUS, it does not include all of the RSX system features. The supplement describes specific sections of the *IAS/RSX-11 ODT Reference Manual* that should be ignored in the P/OS environment and identifies the specific RSX system feature not supported.

### 1.0 I/D Space and Supervisor Mode

P/OS does not include RSX support for instruction and data space (I/D space) capabilities. In addition, P/OS does not include supervisor mode registers and, therefore, does not include supervisor-mode libraries.

The following sections in the *IAS/RSX-11 ODT Reference Manual* do not apply when using ODT in a P/OS environment:

- ☐ Section 1.2.4 Linking to Enable RSX-11M-PLUS Features
- ☐ Section 1.2.4.1 Enabling Instruction and Data Space
- ☐ Section 1.2.4.2 Enabling Supervisor-Mode Library Debugging

### 2.0 Interrupting and Resuming a Debugging Session Using CTRL/C

P/OS does not support the CTRL/C sequence in the terminal driver. The Professional keyboard replaces this function with the INTERRUPT/DO function keys. The ability to interrupt or resume a debugging session using CTRL/C is not pos-

sible in the P/OS environment. Therefore, the following sections in the *IAS/RSX-11 ODT Reference Manual* do not apply to P/OS:

- ☐ Section 1.5 Interrupting a Debugging Session
- ☐ Section 1.5.1 Resuming a Debugging Session (RSX-11M-PLUS)
- ☐ Section 1.5.2 Resuming a Debugging Session (IAS)—(P/OS is also not an IAS system.)

### **3.0 Commands Not Supported**

Because P/OS does not include support for I/D space, the following commands listed in Table 2-3 do not apply in the P/OS environment:

- ☐ The “I” command (Access Data Space)
- ☐ The “I” command (Access Instruction Space)
- ☐ The “U” command (sets the current mode of ODT to user mode)
- ☐ The “Z” command (sets the current mode of ODT to supervisor mode)

### **4.0 Setting Breakpoints That Refer to I/D Space**

Since P/OS does not support I/D space, breakpoints never refer to I/D space. Therefore, the last two (shaded) paragraphs in Section 3.1.1 do not apply.

### **5.0 Redirecting ODT Output**

**Note:** The information on LUN assignments in Section 6.1.4 of the *IAS/RSX-11 ODT Reference Manual* does not apply directly to the P/OS environment.

This section describes how to direct ODT output to the printer port on the Professional, so you can use a debugging terminal connected to that port. You can use any of the VT100 or LA series terminals running at 9600 baud for that purpose. Note that when connecting a debugging terminal to the printer port, you should use a console cable, not a printer cable.

The device control LUN registers \$0D and \$1D contain the logical unit numbers of the ODT output devices. ODT assigns both LUNs to the Professional video terminal (video monitor/keyboard, device TT1:). This means all output goes to the video display by default.

To debug with a debugging terminal instead of the Professional video terminal, you must change the value in the \$0D register to reflect a LUN assignment of the printer port (device TT2:).

To make a LUN assignment to the printer port,

1. At task build time, include the following command line in the command file:

ASG = TT2:n

where n is a decimal number.

This ASG option assigns the LUN (n) to the printer port.

- 2 After you start your program, open register \$0D and deposit the LUN number (n) of the printer port. Use the following ODT command to do this:

\$0D/n

where n is the octal equivalent of the decimal number used in the ASG statement above.

ODT will then prompt at the debugging terminal.

## **6.0 PDS Command Line**

Since P/OS is not an IAS system, the PDS command line is invalid for P/OS. Therefore, Section 8.1.3 does not apply.

## **7.0 The Trace Debugging Program**

P/OS does not support Trace. Therefore, Sections 8.2 through 8.2.2 do not apply in the P/OS environment.





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