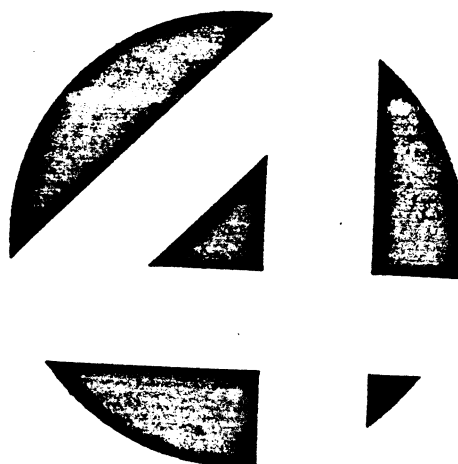


**PORT COMMANDER™**  
SOFTWARE  
RELEASE NOTES  
FOR RISC/os

Revision 02



# NOTICE

Every attempt has been made to make this manual complete, accurate and up-to-date. However, all information herein is subject to change due to updates. All inquiries concerning this manual should be directed to POINT 4 Data Corporation.

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# REVISION RECORD

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<u>Revision</u>	<u>Description</u>	<u>Date</u>
01	Initial customer release	04/16/91
02	Re-issued for version 2.00	10/31/91

# LIST OF EFFECTIVE PAGES

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Changes, additions, and deletions to information in this manual are indicated by vertical bars in the margins or by a dot near the page number if the entire page is affected. A vertical bar by the page number indicates pagination rather than content has changed. The effective revision for each page is shown below.

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## Section 1 INTRODUCTION

This document contains the information required to install Portcomm 2.00 on a system running MIPS Computer System's RISC/os 4.52 or later.

Please read through these Release Notes carefully before attempting to install the release. You will need to read all of the release information and follow the procedures carefully to assure a smooth update.

### 1.1 Release Identification Information

#### Software Version

Portcomm 2.00

#### Release Date

October 31, 1991

#### POINT 4 Marketing Identification:

PCM0001 Portcomm 2.00

UTP0049 Portcomm 2.00 Release Notes

### 1.2 Release Requirements

The Portcomm System Requirements are:

Package	Approximate Disk Space	Inodes
pcomm	.80Mb	64

In addition to this space, an extra 5 megabytes are needed temporarily to rebuild the kernel with the necessary drivers. This additional space must be available during the install procedure.

### 1.3 Compatibility

Portcomm 2.00 is developed to run on RISC/os 4.52 or later only.

For the install to be successful, both the "reconfig" and "cmplrs" packages of RISC/os must be resident on the target system.

## 1.4 Portcomm Distribution Media

POINT 4 systems software is organized as a set of packages each of which is comprised of several subpackages. The Portcomm software package includes the following subpackages distributed on one QIC-120 tape:

Tape 1 of 1		
File	Name	Contents
0	id:	tape identification
1	instd:	packaging information and tools
2	archive1:	Port Commander tar archive



## Section 2

### Portcomm 2.00

This section describes new features, problems resolved, and known problems with Portcomm 2.00.

## 2.1 New Features

This is the second release of POINT 4's Port Commander Subsystem.

### 2.1.1 Pass-Through Printing

Pass-through printing has been implemented in the release. See the discussion in the Port Commander Installation/User Manual for configuring and using the feature.

### 2.1.2 pinfo(1M)

`/etc/portcomm/pstat` has been renamed as `/etc/portcomm/pinfo`.

### 2.1.3 pinit(1M)

The `-l` option of `pinit(1M)` now provides an alternate download directory name rather than an alternate download file name. The `-t` option has been deleted accordingly.

### 2.1.4 pstty(1)

The `-g` argument has been deleted and three new modes have been added to `pstty(1)`. Additionally, parameters may be stored in a file and `pstty` directed to obtain the parameters from the file instead of from the command line.

The three new modes are:

<code>locketsflow</code>	Permanently enables Clear-To-Send (CTS) output flow control. This option can be used on lines with modems or printers to prevent programs from disabling output flow control.
<code>locketson</code>	Permanently fix CTS status on. This option can be used on lines if the CTS signal is not available, but CTS output flow control may be enabled.
<code>lockrtsflow</code>	Permanently enable Request-to-Send (RTS) input flow control. This option can be used on lines with modems to prevent programs from disabling input flow control.

## **2.2 Problems Resolved in Portcomm 2.00**

None - Initial Release.

## **2.3 Known Problems and Limitations**

The following is a list of known problems with the Portcomm 2.00 release, and any work around solutions known.

There are no known problems at this time.

## Section 3 INSTALLATION

This section illustrates the installation of the Portcomm 2.00 release onto a system running RISC/os. In the procedure examples given in this section, different fonts are used to show output from the system and user responses. System output is shown in the standard font; user responses are shown in the bold font; comments about the procedure are shown in underlines. All user responses should be typed as shown and entered with a return.

Prompts from the installation scripts are always in the form:

```
prompt (choice1 choice2 ...) [default]?
```

or, simply:

```
prompt [default]?
```

where ```(choice1 choice2 ...)```, if present gives the range of legal responses, and ```[default]``` gives the default choice; pressing return by itself will always select the default choice.

### 3.1 Prerequisites

To install this release of Portcomm, you will need to:

1. Finish reading these release notes.
2. Make sure that the system is running the version of RISC/os specified on the package tape. To determine the RISC/os release version, issue the command:

```
# uname -r
```

If the system is not running the same version as shown on the tape label, either obtain the correct tape, or upgrade the system to the proper release level of RISC/os before proceeding.

3. Make sure there is enough space in the root and /usr filesystem to hold all of the components of this release.

### 3.2 Replacing an 8x4 Configuration

If you are replacing a Corollary 8x4 Serial I/O Subsystem, we recommend that the installation be performed in the following order:

1. After backing up the system, shut it down by performing the following steps from the console device:

```
login: root
Password:
```

```
# cd /
# /etc/telinit 0
```

Before pressing reset or turning off the power, the system administrator should wait for the console message:

The system is down.

Under normal circumstances the system will then drop into the monitor and the console will display the monitor prompt:

```
M/120 MIPS Monitor Version 5.10 MIPS OPT Tue Nov 28 21:06:25 PST 1989 root
Memory size: 16777216 (0x1000000) bytes, 16MB
Icache size: 65536 (0x10000) bytes
Dcache size: 65536 (0x10000) bytes
>>
```

2. Remove the 8x4 board(s) and install the Port Commander Host Adapter.
3. When ready, power-up the system and allow the self test to run.
4. Start RISC/os in single-user mode. To do so, enter one of the following commands, depending on your system type:

```
>>boot dkis()unix initarg=s      (for MARK 2000/2500)
>>boot dkisd()unix initarg=s     (for MARK 1500/1800)
840528+109248+870464 entry: 0x80021000
CPU: MIPS R3000 Processor Chip Revision: 2.0
FPU: MIPS R3010 VLSI Floating Point Chip Revision: 2.0
```

```
RISC/os Release 4_52 mips Version UMIPS
Total real memory   = 16777216
Available memory    = 14581760
Root on dev 0x1001, Swap on dev 0x1001
Root fstype ffs
New swplo: 26992   swap size: 6244K bytes
Available memory    = 12967936
```

```
INIT: SINGLE USER MODE
TERM=(dumb)      User enters terminal type here
```

The system is now in single user mode. Follow the instructions on installing the release below.

### 3.3 Installing the Release

The system must be put into the single user state. If it is not already there, type:

```
# /etc/telinit 1
```

To install the package, mount the distribution tape and then perform the procedure shown below:

```
# mount /usr
# /usr/pkg/bin/inst
```

Software package installation

Install package relative to where [/]?

Please mount the (first, if multiple tapes) distribution tape, then press return...

Rewinding the tape...

Verifying tape id...

Extracting packaging information tree...portcomm2.00

Installation Information:

Packages will be read in from the local Q120 tape device.

Machine type: m120-5

Is the information above correct? (y n) [y]?

=====  
checking subpackages  
=====

The following subpackages may be installed:

pcomm -- POINT 4 Port Commander base system

=====  
selecting subpackages  
=====

You may select all of the above subpackages by answering "y" to the following question. If you answer "n" then you will be asked to select the optional subpackages you would like to have installed.

Install ALL subpackages (y n) [n]? y

=====  
setting system clock/calendar  
=====

The current value of the clock is: Wed Mar 13 16:15:40 PDT 1991

Is the clock correct (y n) [y]?

===== verifying single-user mode =====

The system is in a single-user run level.

===== preserving local files =====

Running preserve -s for subpackage pcomm... 2 files preserved.

===== verifying disk space =====

Do you want to check for space (please do so unless you really understand the consequences) (y n) [y]?

The system will now be checked to verify that there is enough disk space with the current configuration to successfully install the package (and any selected optional subpackages). For large packages (especially operating system packages), this can be time consuming...

You will see one of the following responses from the system:

device	bfree	ifree	breq	ireq	bcred	icred
/dev/root	5032	8827	13081	396	11344	348
/dev/usr	19607	102942	87942	4744	72948	4574

WARNING! This package will fit on the disk, but it will cause more than 90% of the disk to be used. This may cause problems for non-root users. It is recommended that you abort the installation now.

Abort the installation? (y n) [y]? n

or:

There is enough space.

===== stripping old links =====

Stripping links for subpackage pcomm...

===== extracting files from subpackage archives =====

rewinding the tape...  
Verifying tape id... ok  
Forward spacing the tape...

Loading subpackage: pcomm...  
Forward spacing the tape...  
rewinding the tape...

===== running comply =====

running first comply pass...

running second comply pass...  
There were no comply messages from the second pass.

=====  
cleaning up old versions  
=====

An attempt will now be made to clean up any files left over from previous versions of the software which has just been installed.

Searching for old versions to remove...

=====  
restoring preserved user files  
=====

Running preserve -r for subpackage pcomm...

=====  
running conversion scripts  
=====

=====  
pcomm.devices Wed Mar 12 12:24:26 PST 1991  
=====

Please note that Portcomm uses a different naming convention for device files corresponding to the Portcomm tty ports. The tty device names begin with /dev/tty[cC] followed by a number between 0 and 127. These are likely to be different than the device names used in the past. Therefore, we recommend that you modify any local additions which use the old device names to use the new ("ttyc") names, and then to remove the old device names from the /dev directory.

running MKDEV...

The /dev/tty[Cc]xxx devices have been created.

Press return to continue:

=====  
pcomm.inittab Wed Mar 12 12:24:26 PST 1991  
=====

This system was configured for use with Corollary's 8x4 Communications controllers. This installation procedure has removed those drivers and therefore, the device nodes associated with the drivers will no longer operate properly. To help you, the /etc/inittab file will now be adjusted to prevent errors from occurring on startup and to add support for the Port Commander. The following changes will be made:

- 1) The mxrc line will be removed.
- 2) All tty line entries for tty[1-4][a-d][1-8] will be set off
- 3) Port Commander ttycxxx entrys (all off) will be added

We recommend that you modify any local scripts or tables which use the old ("tty[1-4][a-d][1-8]") names to use the new ("ttycxxx") names, and then to remove /dev/tty[1-4][a-d][1-8].

A copy of /etc/inittab will be saved as /etc/inittab.save.1.

/etc/inittab has been modified.  
The unmodified /etc/inittab has been saved in /etc/inittab.save.1.

Press return to continue:

===== pcomm.makefiles Wed Mar 12 12:24:26 PST 1991 =====

Adding the Portcomm drivers to /usr/reconfig/master.d/Makefile.

Your /usr/reconfig/master.d/Makefile has been converted to include the new Portcomm drivers. The old version of your /usr/reconfig/master.d/Makefile file is saved as /usr/reconfig/master.d/Makefile.save.

Press return to continue:

===== pcomm.unix Wed Mar 12 12:24:26 PST 1991 =====

Build a new kernel (y n) [n]? y

(A number of "No source..." error messages may be displayed. They are expected and are not a problem.)

unix.r2400\_std made.  
Install the new kernel (y n) [n]? y

Press return to continue:

===== cleaning up =====

Remove install tools (y n) [n]? y

===== installation complete =====

#

Shutdown the system and reboot to complete the installation.



**COMMENT SHEET**

MANUAL TITLE: Software Release Notes Port Commander for RISC/os

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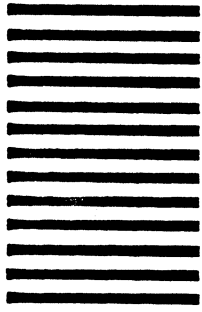
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