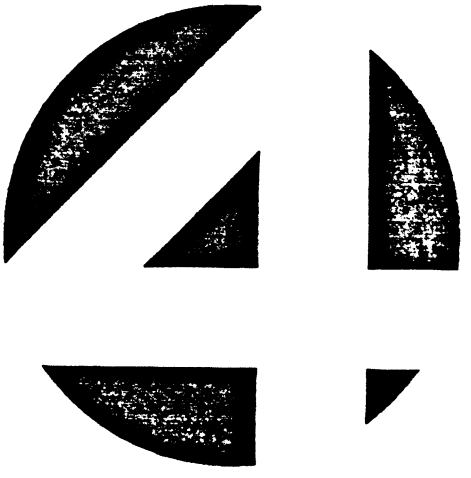
Corollary 8x4 ™ for RISC/os

Software
Release Notes
Version 2.00

Revision 01.



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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01	Initial customer release	08/02/91

LIST OF EFFECTIVE PAGES

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Section 1
INTRODUCTION

This document contains the information required to install 8x4 version 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
8x4 version 2.00
Release Date
July 23, 1991
POINT 4 Marketing Identification:
COR0001 8x4 2.00
UTP0050 8x4 2.00 Release Notes

1.2 Release Requirements

The 8x4 System Requirements are:

Package	Approximate Disk Space	Inodes
8x4	.78Mb	56

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

8x4 version 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.

This release corresponds to Corollary Inc.'s 1.3.1d release for the 80x86. The capabilities are described in Corollary's 8x4 Serial I/O Subsystem Installation and User's Manual, Second Edition (excluding the addendum).

1.4 8x4 Distribution Media

POINT 4 systems software is organized as a set of packages each of which is comprised of several subpackages. The 8x4 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:**	Corollary 8x4 **tar** archive

Section 2
8x4 2.00

This section describes new features, problems resolved, and known problems with 8x4 2.00.

2.1 New Features

This is the second release of POINT 4's Corollary 8x4 Multiplexor subsystem.

Pass-through printing (as described in Corollary's User Manual) has been implemented. See the discussions in that manual for configuring and using the feature.

2.2 Problems Resolved in 8x4 2.00

/usr/bin/pg no longer truncates output to the screen.

When using the "plus" versions of the 8/tc and 8/tcfm, a line at 9600 baud would ignore all input, but would perform output. This problem would appear immediately after the line was opened, such as when the system was first started or after someone logged off. It might also cause a 9600 baud printer line to ignore XOFF and XON. The problem could be cleared by temporarily changing the baud rate of the line.

2.3 Known Problems and Limitations

The following is a list of known problems with the 8x4 2.00 release, and any work around solutions known.

This release corresponds functionally to Corollary's version 1.3.1d release. The capabilities are described in Corollary's 8x4 Serial I/O Subsystem Installation and User's Manual, Second Edition without the addendum. All commands and options described therein have been ported and implemented with one exception.

The /etc/8x4/mxstty command can be used to set or clear lockixon and to reset the default characteristics. However, the use of all other stty parameter setting via mxstty is not supported by this release.

Default open may not set IXON. An initial open of a serial line uses various default conditions (9600 baud, 8n1, IXON, IXANY), however, the IXON/IXANY attributes may be ignored until a subsequent stty or TCSET ioctl. Since getty (cu, uucp, ..) does a TCSET, the only place we would expect a problem would be a printer script that didn't call stty.

Section 3
INSTALLATION

This section illustrates the installation of the 8x4 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 8x4, 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 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...8x42.00

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:

8x4     -- Corollary 8x4 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 8x4... 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 8x4...

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

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

Loading subpackage: 8x4...
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 8x4...

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

========== 8x4.devices   Wed Mar 12 12:24:26 PST 1991 ==========

Please note that the 8x4 uses a different naming convention for
device files corresponding to the 8x4 tty ports.  The 8x4 tty
device names are of the form /dev/tty[1-4][a-dA-D][1-8].  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 other device names to use the 8x4's device names, and then
to remove the old device names from the /dev directory.

running MKDEV...

The /dev/tty[1-4][a-dA-D][1-8] devices have been created.

Press return to continue:


========== 8x4.inittab   Wed Mar 12 12:24:26 PST 1991 ==========

This system was not previously configured for use with Corollary's
8x4 Communications controllers.  To help you, the /etc/inittab
file will now be adjusted to add support for the 8x4.

The following changes will be made:

  1) A "mxrc" line will be added.
  2) tty line entries for tty[1-4][a-d][1-8] will be appended

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

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:

========== 8x4.makefiles   Wed Mar 12 12:24:26 PST 1991 ==========
```

```
Adding the 8x4 drivers to /usr/reconfig/master.d/Makefile.

Your /usr/reconfig/master.d/Makefile has been updated to
include the 8x4 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:

========== 8x4.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 ==========
#
```

Finally, shutdown the system (**/etc/telinit 0**) and then reboot to complete the installation.

3.3 Post-Installation Setup

If this is an update, there are no additional steps required.

If this is a new installation, you will be asked for the 8x4 authorization code the first time the system is rebooted following the installation.

The 8x4 authorization code should have been supplied by POINT 4 with the original driver. If you cannot find this authorization, please contact POINT 4's customer support department. Please have the system's CPU serial number available when calling. The serial number can be displayed by using the **/etc/hwconf** command.

COMMENT SHEET

MANUAL TITLE: Software Release Notes 8x4 for RISC/os

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