

# **COHERENT Operating System Release Notes**

Release 3.0.0+

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## **Section 1:**

# **Release Notes**

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This document contains the release notes for COHERENT version 3.0. Be sure to read this document carefully before you begin the installation process.

Also attached is a compatibility list — hardware reported to work with this release of COHERENT, as well as a list of incompatible hardware. Please check these lists prior to installing COHERENT.

Finally, these notes contain a set of errata — errors in the manual that were discovered after the manual went to press. Try as we might, in a manual more than 1,000 pages long, consisting of 17 lengthy tutorials and more than 700 individual Lexicon articles, mistakes are nearly inevitable. We suggest that you pencil the corrections into your manual, and we hope that you will accept our apologies for whatever inconvenience this may have caused you.

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## Section 2:

# Compatibility Information

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This section of the release notes details machines, add-on cards and BIOS ROMs reported to work with the COHERENT operating system, as well as those reported not to work.

Before you continue, please note the following caveats:

First, this is only a partial list of the hardware on which COHERENT runs. We receive confirmation of new machine configurations on an almost daily basis. If you believe that you have a machine, BIOS or add-on board that is **not** compatible with COHERENT but is listed below, we suggest calling our technical support department.

Second, manufacturers make changes to their hardware as part of redesigns or product improvements. These can include logic, timing, firmware or functionality changes. While efforts have been made in order to support tested products, Mark Williams Company cannot guarantee compatibility with products not under its control.

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Lastly, if you believe that your computer cannot run COHERENT, please contact the Mark Williams Company technical support department.

### Systems

The following systems have been tested with COHERENT. Note that configurations vary, especially with respect to disk controllers, so not all possible configurations have been tested.

- Acer 910, 1100
- AGI 3000D, 3000G
- ALR PowerFlex, 386/220
- American Semiconductor 286 PC
- Arche 386/25
- AST Premium 286, 386/33
- AT&T 6386
- Austin 386/33
- Bondwell 286 Laptop
- Club AT, 1800
- Compaq 286, 386, 386 Portable, LTE/286
- CompuAdd 286-10, 286-12, 320
- Computer Directions 386SX
- Dataworld 386/33
- Dell System 210, 300, 310
- DTK PEM-2000 386
- Dyna 386/20
- EDP 386SX
- Emerson 8286ECV
- EPS 386
- Epson Equity II+
- Executive AT-286
- Five Star 386/20
- Gateway 2000 (RLL and ESDI)
- GCH 386 AT
- HP Vectra RS/20 (ESDI), ES/12

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IBM PC/AT (286)  
Jameco 3550  
Logix 386-25  
MAXAR 386  
Micro-1 386  
Micro-Designs 386, 25MHz  
Micro Express 386  
Micronics 386  
Mitsubishi 286L, 386  
MultiTech 900  
MYLEX MWS386, 25 MHz  
NCR 386  
NEC 386/25, Powermate 386/20, 386SX  
Northgate 286/20, 386/16, 486  
Optima 386  
Packard Bell Axccl 386SX, PB900, Pack-Mate, Legend V  
PC's Limited AT  
SEFCO 16 MHz 386SX  
Smart Micro 386  
Standard Brands 386-25, 386/SX  
Sys Technologies 386  
Tandy 3000HD, 4000  
Telex 1280  
Tera-Tek 386  
Toshiba T3200, T5200  
Touche' 5550T  
Tri-Star 386  
Unisys 2850  
UTI 386  
Wells American AT, 14 MHz  
Wyse 2200  
Zenith 386/33, SuperSport 286

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### Add-On Boards

The following add-on boards have been tested with COHERENT. Note that board and firmware revisions may vary. Not all possible configurations have been tested.

- BTC 1505 Monochrome Graphic Printer Card
- Data Technology DTC7287 RLL 1:1
- DTK Graphicsmith
- DTK PEI-301 32-bit memory expansion
- Emulex DCP/MUX
- IBM Monochrome Printer card
- National Computer Ltd NDC545 MFM
- SEFCO serial adapter
- SEFCO Monochrome adapter
- Ultrastore Ultra 12 ESDI
- Western Digital WD1006V-MM2 1:1 MFM
- Western Digital WD1006V-SR2 1:1 RLL
- Western Digital WD1007 ESDI

### BIOS ROMs

The following BIOS ROMs have been tested with COHERENT.

- AMI 286
- DTK 386
- IBM AT (286)
- PHOENIX 386
- PHOENIX 386SX

### **Incompatible Hardware**

The following hardware is known not to work with this release of COHERENT.

- AT&T 6300
- IBM MicroChannel PS/2 models
- Perstore RLL hard disk controllers
- SCSI interface devices
- Western Digital WD1004-27X



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## Section 3: Errata

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The following manual sections are incomplete in the printed Lexicon. These will be fixed in the next release.

<b>getty</b>	Terminal initialization
<b>kill</b>	Signal a process
<b>kill</b>	System call
<b>mail</b>	Electronic mail
<b>mknod</b>	System call
<b>mount</b>	System call
<b>sync</b>	System call
<b>umount</b>	System call

## Undocumented Features

1. Setting environment variable **ASKCC** to **YES** causes **mail** to prompt for a list of names to receive copies of the message being sent.

2. The login prompt can be changed by editing the file `/etc/logmsg`.

3. The **kill** command accepts signal names as well as numbers. The following signal names may be used: **SIGHUP**, **SIGINT**, **SIGQUIT**, **SIGALRM**, **SIGTERM**, **SIGREST**, **SIGSYS**, **SIGPIPE**, **SIGKILL**, **SIGTRAP**, **SIGSEGV**, **SIGILL**, **SIGIOT**, **SIGEMT**, **SIGFPE**, **SIGBUS**. The letters *SIG* at the start of the signal name may be omitted. Upper- or lower-case may be used for the signal name. An optional hyphen may precede the signal name.

4. The shell script `/etc/brc` is executed by the **init** process when **COHERENT** enters single-user mode. The commands in `/etc/brc` do such things as check the file system and initialize the time. See the **rc** lexicon entry for the analogous script executed when **COHERENT** enters multi-user mode.

## Install Problems

If you are having trouble using your parallel printer with **COHERENT**, it may be due to differences in naming conventions. DOS device **LPT1:** may actually be **COHERENT** device `/dev/lpt2`.

To see if this is the case, try sending output to `/dev/lpt2`, e.g.

```
echo HELLO WORLD > /dev/lpt2
```

with your printer on line. If the output is printed, you need to link `/dev/lp` to `/dev/lpt2`. To do this, log in as root and type

```
ln -f /dev/lpt2 /dev/lp
```

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### Serial Communications

Using the **r** option for a port in the **/etc/ttys** file will cause users dialing in to be prompted for a remote access password in addition to their login name and optional password. The **/etc/passwd** file has an entry for **remacc** where this password is stored in encrypted form. To avoid prompting for the remote access password, delete the second field of the remote access entry in **/etc/passwd** (e.g., change the entry to read

```
remacc::::Remote access::
```

while logged in as root).

### UUCP

1. Immediately after adding a new site, outgoing mail should be queued to that site (i.e., use **mail** to send a message to any login at the remote site).
2. When **/usr/lib/uucp/uucico** calls a remote site using a modem that is enabled for logins, the port used is disabled during the transfer and then re-enabled before **/usr/lib/uucp/uucico** exits. When the port is re-enabled after the transfer, permissions for the port are restored by **init** to the default values rather than to their previous value.
3. If a site can be reached using **kermit** but not using **uucico**, check the **/usr/lib/uucp/Permissions** file. If the **LOGNAME** entry for the site in question is not a **u** followed by the value specified in the **MACHINE** field, try changing it to be so. For example,

```
LOGNAME=uxyz    MACHINE=xyz \
```

## Known Bugs and Limitations

1. On some systems, when using DOS 4.01, any operations from DOS that write to the file allocation table (FAT) of the DOS partition cause the COHERENT master boot to stop working.
2. Device `/dev/tty` is accessible only from the console and terminal ports set as *remote*, not from terminals set as *local*. (This will be fixed in the next release of COHERENT.)
3. The `-v` option to `/etc/fdformat` does not work correctly.
4. In shell scripts, the start of a *here document* must be the last thing on a line, e.g.

```
cat > outfile << SHAR_EOF
```

works, but

```
cat << SHAR_EOF > outfile
```

does not.

5. In shell scripts, a newline may not occur inside a double-quoted string, although it may occur inside a single-quoted string. For example,

```
FOO='x  
yz'
```

works, but

```
BAZ="x  
yz"
```

does not.

6. Wildcards are *not* expanded in redirection arguments. If you enter

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```
                echo hello > junk
then
                cat < junk
works, but
                cat < ju*
does not.
```