

BlueCat Linux Target Support Guide

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For Motorola PrPMC750 Boards

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The *BlueCat Linux Target Support Guide for Motorola PrPMC750 Boards* describes the installation and boot procedures for the BlueCat Linux Target Support Package (TSP) for Motorola PrPMC750 boards.

Throughout this Target Support Guide (TSG), the TSP is referred to as the “prpmc750,” the board as the “PrPMC750 target board,” or simply as the “target board.”

TSP Contents

The Target Support Package (TSP) for the Motorola PrPMC750 target board contains the following tar and script files:

- `prpmc750_linux_bin.tgz`
- `prpmc750_linux_src.tgz`
- `prpmc750_win_bin.tgz`
- `prpmc750_win_src.tgz`
- `install_prpmc750.sh`

Chapter Outline

- **Chapter 1** is an overview of the TSG’s individual chapters.
- **Chapter 2** describes the download and boot procedure for BlueCat Linux on the target PrMC750 board.

- **Chapter 3** details configuration of the prebuilt BlueCat Linux kernel contained in the PrPMC750 TSP.
- **Chapter 4** in this guide lists the BlueCat Linux demo systems supported by the PrPMC750 TSP
- **Chapter 5** lists the device drivers in the PrPMC750 TSP.

PrPMC Boards

Throughout this document, references are made to three types of boards:

- The PMC board called **PrPMC750-1241**, a Motorola 750 PowerPC processor-based mezzanine board
- The PMC board called **PrPMC750-2141**, a Motorola 750 PowerPC processor-based mezzanine board with additional hardware configuration for development and testing purposes
- The base board for mounting both PrPMC750-1241 and PrPMC750-2141 called the Motorola **PPMCBASE**

Additional Documentation

For information specific to the PrPMC750 boards, refer to the following manuals available on the Motorola website, <http://www.mcg.mot.com>:

- PPMC Datasheets by Motorola
- *PPMC750 Extended Processor PMC Module Installation and User's Manual* (PrPMC 750A/1H2 – May 2000)
- *PPMC Extended Processor PMC Module Programmers Reference Guide* (PPMCXTA/PG1)
- *PPMCBASE Board Installation and Use Manual* (PPMCBSA/1H2 Jan 2000)
- *PPC Bug Firmware Package User's Manual, Parts 1 and 2* (PPCBUGA1/UM & PPCBUGA2/UM)

Booting BlueCat Linux on PrPMC750 Targets

This chapter describes the BlueCat Linux installation and boot procedures for the PrPMC750-1241/2141 board.

Installing the PrPMC750 Distribution

Before downloading and booting BlueCat Linux from a PrPMC750 target board, it must first be installed on a cross development host.

Installing the Distribution on a Linux Host

The installation of the binary for PrPMC750 target boards is performed using the base release of BlueCat Linux for MCP750 target boards.

To install BlueCat Linux on PrPMC750, ensure that BlueCat Linux for the MCP750 target board is installed on the cross development host.

The PrPMC750 binary distribution is provided as a tar file, `prpmc750_linux_bin.tgz`, which includes the following files:

- `demo_trg-cpci_mcp750-1.0-1.ppc.rpm`
- `kernel_trg-bcboot-2.2.12-1.ppc.rpm`
- `kernel_trg-cpci_mcp750-2.2.12-1.ppc.rpm`
- `kernel_trg-doc-2.2.12-1.ppc.rpm`
- `kernel_trg-headers-2.2.12-1.ppc.rpm`
- `kernel_trg-source-2.2.12-1.ppc.rpm`
- `uninstall.sh`
- `SETUP.sh.prpmc750`
- `change_prpmc750`

Use the following procedure to install the binary distribution:

1. Install the BlueCat Linux base distribution (`cpcci_mcp750`) on a Linux host. (Refer to the *BlueCat Linux User's Guide* for more information on installing BlueCat Linux for MCP750 boards.)
2. The following two files from the PrPMC750 TSP are required:

- `install_prpmc750.sh`
- `prpmc750_linux_bin.tgz`

It is assumed that the `/home/temp` directory contains the files `install_prpmc750.sh` and `prpmc750_linux_bin.tgz` required for installation.

3. Change to the temporary directory where the binary files for the `prpmc750` distribution are stored, for example:

```
# cd /home/temp
```

4. Run the `install_prpmc750.sh` program with the following options:

```
# ./install_prpmc750.sh -xy -bprpmc750 \  
-d/home/bcl
```

This script assumes that the base distribution (`cpcci_mcp750`) is installed in the `/home/bcl/` directory.

`install_prpmc750.sh` installs the PrPMC750 binary in `/home/bcl`. Also, it copies the `uninstall.sh` and `change_prpmc750` files to the `/home/bcl` directory.

After installation is complete, this message appears:

```
"Installation complete...Execute \  
. SETUP.sh"
```

The install script run with the options above retains all the base distribution demo systems, which are not supported by the PrPMC750 TSP by default.

For more information about `install_prpmc750.sh`, see Appendix A.

5. The above screen output is a prompt to change to the BlueCat Linux installation directory and execute the `SETUP.sh` script:

```
# cd /home/bc1/  
# . SETUP.sh
```

This enables the BlueCat Linux environment for the PrPMC750 board.

NOTE: *If required the PrPMC750 TSP can be removed with the uninstall script provided. Refer to Appendix B for more information.*

Installing the PrPMC750 Source on a Linux Host

Use the following procedure to install the PrPMC750 source distribution for Linux cross development hosts:

1. Obtain the PrPMC750 Linux source tar file, `prpmc750_linux_src.tgz`.

The tar file contains these source RPM files:

```
- kernel_trg-2.2.12-1.src.rpm  
- demo_trg-1.0-1.src.rpm
```

2. Copy the tar file to a temporary folder. For example,

```
# cp prpmc750_linux_src.tgz \  
/tmp/prpmc750
```

3. Change to the temporary folder.

```
# cd /tmp/prpmc750
```

4. Untar the file:

```
# tar -xvzf prpmc750_linux_src.tgz
```

The source RPMs (`kernel_trg-2.2.12-1.src.rpm` and `demo_trg-1.0-1.src.rpm`) are copied to the `/tmp/prpmc750` directory.

5. Change to the directory where the BlueCat Linux binary distribution for PrPMC750 is installed and enable the BlueCat Linux environment (if not already in the environment).

```
# cd /home/bc1
# . SETUP.sh
```

6. Install a source file with the `rpm` command:

```
# rpm -i /tmp/prpmc750/\
kernel_trg-2.2.12-1.src.rpm
```

The `kernel_trg.spec` file (the RPM specification file) is copied to the `$BLUECAT_PREFIX/cdt/src/bluecat/SPECS` directory and the corresponding source tar files are copied to the `$BLUECAT_PREFIX/cdt/src/bluecat/SOURCES` directory.

For additional details, refer to the section “Installing Sources of BlueCat Linux RPM Packages” in Chapter 1 of the *BlueCat Linux User’s Guide*

The `demo_trg` RPM file can also be installed using the instructions above.

Installing the Distribution on a Windows Host

The file required to install PrPMC750 is a tar file, `prpmc750_win_bin.tgz`, containing the following files:

- `demo_trg-cpci_mcp750-1.0-1.ppc.rpm`
- `kernel_trg-bcboot-2.2.12-1.ppc.rpm`
- `kernel_trg-cpci_mcp750-2.2.12-1.ppc.rpm`
- `kernel_trg-doc-2.2.12-1.ppc.rpm`
- `kernel_trg-headers-2.2.12-1.ppc.rpm`
- `kernel_trg-source-2.2.12-1.ppc.rpm`
- `uninstall.sh`
- `SETUP.sh.prpmc750`
- `change_prpmc750`

The installation of PrPMC750 binary for a Windows cross development host requires the distribution of BlueCat Linux for Windows for MCP750 boards.

Use the following procedure to install PrPMC750 BlueCat Linux binaries for Windows cross development hosts:

1. The following files from the PrPMC750 TSP are required:
 - `install_prpmc750.sh`
 - `prpmc750_win_bin.tgz`
2. Install the BlueCat Linux base distribution (`cpci_mcp750`) on the Windows host. Refer to “Installing BlueCat Linux” in Chapter 1 of the *BlueCat Linux User Guide* for instructions on installing BlueCat Linux for MCP750 boards.
3. Open a `bash` shell prompt. To open a `bash` window, run the `cygwin.bat` script included in the `cpci_mcp750` distribution.
4. Change to the temporary directory where the binary files for the `prpmc750` distribution are stored, for example:

```
# cd /home/temp
```

5. Run the `install.sh` program provided:

```
# ./install_prpmc750.sh -xy -bprpmc750\  
d/home/bcl
```

This command assumes that the base (`cpci_mcp750`) is installed in the `/home/bcl/` directory.

This script installs the PrPMC750 binary distribution in `/home/bcl`. Also, it copies the `uninstall.sh` and `change_prpmc750` files to `/home/bcl`.

After installation is complete, the following message appears:

```
"Installation complete... Execute \  
. SETUP.sh"
```

6. The above screen output is a prompt to change to the BlueCat Linux installation directory and enable BlueCat Linux environment (if not already under the BlueCat Linux environment):

```
# cd /home/bcl/  
# . SETUP.sh
```

This enables the BlueCat Linux environment for the PrPMC750 target board.

NOTE: *If required the prpmc750 TSP can be removed with the uninstall script provided. Refer to Appendix B for more information.*

The install script run with the options above retains all base (cpci_mcp750) distribution demo systems, which are not supported by the PrPMC750 TSP by default.

For more information on the install script, see Appendix A.

Installing the PrPMC750 Source on a Windows Host

Use the following procedure to install the PrPMC750 source distribution for Windows cross development hosts:

1. Obtain the PrPMC750 source tar file for Windows, `prpmc750_win_src.tgz`. This file contains the following source RPM files:

- `kernel_trg-2.2.12-1.src.rpm`
- `demo_trg-1.0-1.src.rpm`

2. Copy the `prpmc750_win_src.tgz` file to a temporary folder.

```
# mv prpmc750_win_src.tgz /tmp/prpmc750/
```

3. Change to the temporary folder.

```
# cd /tmp/prpmc750
```

4. Untar the file.

```
# tar -xvzf prpmc750_win_src.tgz
```

This command copies the source RPMs to the local directory (`/tmp/prpmc750`).

5. Change to the directory where the BlueCat Linux binary distribution for PrPMC750 is installed and enable the BlueCat Linux environment (if not already under the environment).

```
# cd /home/bcl
# . SETUP.sh
```

6. Install a source file with the `rpm` command:

```
# rpm -i /tmp/prpmc750/\
kernel_trg-2.2.12-1.src.rpm
```

The `kernel_trg.spec` (the RPM specification file) is copied to the `$BLUECAT_PREFIX/cdt/src/bluecat/SPECS` directory and the corresponding source tar files are copied to the `$BLUECAT_PREFIX/cdt/src/bluecat/SOURCES` directory.

For further details, refer to the section “Installing Sources of BlueCat Linux RPM Packages” in Chapter 1 of the *BlueCat Linux User’s Guide*

The `demo_trg` RPM can also be installed using the instructions above.

Uninstallation

Once the installation is complete, the BlueCat Linux base distribution (`cpci_mcp750`) can be restored using the `uninstall.sh` file. As part of the installation, the script file `uninstall.sh` is copied to the binary distribution directory. To uninstall the TSP, use the following steps:

1. Mount the base (`cpci_mcp750`) CD only if it is not already auto-mounted.

- for Linux cross development hosts:

```
# mount /mnt/cdrom
```

- for Windows cross development hosts:

```
# mount -f e:/ /mnt/cdrom
```

2. Change to the directory where the TSP is installed. For example:

```
# cd /home/bcl
```

3. Run the `uninstall.sh` program:

```
# /uninstall.sh -m/mnt/cdrom -d/home/bcl
```

This restores the base. After uninstallation, the following message appears:

```
"Uninstallation complete...Execute \  
. SETUP.sh"
```

Setting up PrPMC750 Hardware

The following list details the setup requirements for the PrPMC750 2141/1241 board.

- Chassis setup:

The chassis used for the PrPMC750 2141/1241 must be a CompactPCI chassis (can be an HA or non-HA chassis).

NOTE: *The PPMCBASE is not a hot-swappable board, and should not be inserted in a hot swap chassis such as a CPX2000, or a CPX8000 series chassis. Inserting or removing the PPMCBASE while the power is on can result in damage to board components.*

- Console setup for accessing the startup monitor (`ppc-bug`):

If the PrPMC750 2141/1241 board is used on a PPMCBASE board, the serial port setup depends on where the board is connected.

- Serial port 2 of the PPMCBASE is used for the console when connected to the MONARCH PMC slot.
- Serial port 1 of the PPMCBASE is used for the console when connected to the non-MONARCH PMC slot.

- Setup for testing BlueCat Linux demo systems:

Only the PrPMC750 2141 board provides support for two serial ports. This board has an additional serial port for debugging purposes (J5 connector), in addition to the console

port. This second serial port is required for debuggers, such as `kdbg` and `gdb`.

As there is only one serial port that can be used with PrPMC750 1241 and PPMCBASE, additional serial ports require extension modules.

Because of the mechanical constraints, the PrPMC750-2141 mezzanine module is placed on the MONARCH slot of the CompactPCI PPMCBASE board only. The RJ-45 ethernet connector should line up with the cut out in the bezel.

Booting BlueCat Linux on PrPMC750

This section describes several BlueCat Linux boot scenarios, including floppy disk, hard disk drive, and over a network.

Booting over a Network

To boot the BlueCat Linux kernel on a PrPMC750 board over a network, use the following procedure:

1. Set up PPC6-Bug with the `env` command to netboot the PReP image:

```
PPC6-Bug>env
...
Network PReP-Boot Mode Enable [Y/N] = Y? y
...
Update Non-Volatile Memory (Y/N)? y
Reset Local System (CPU) (Y/N)? y
```

After the board resets, it is ready for network-based boots. Network booting options can also be set with the `niot` command:

```
PPC6-Bug>niot
...
Client IP Address = client_ip? client_ip
Server IP Address =server_ip? server_ip
Subnet IP Address Mask =255.255.255.0?
Broadcast IP Address =255.255.255.255?
```

```

Gateway IP Address =0.0.0.0?
Boot File Name ("NULL" for None)=?
/tftpboot/hello.kdi
...
Update Non-Volatile RAM (Y/N)? y
    
```

where `hello.kdi` is the BlueCat Linux image file

2. Boot BlueCat Linux using the `nbo` command

The `nbo` command loads the KDI over TFTP and starts immediately.

```
PPC6-Bug>nbo
```

3. Be sure that the `niot` command is set. For example,

```
PPC6-Bug>nbo 0 0 dient_ip host_ip
```

Booting from Flash

There is only 7MB of flash memory available for the user on a PrPMC750 board with an address range of `0xff100000` to `0xff7ffffff`.

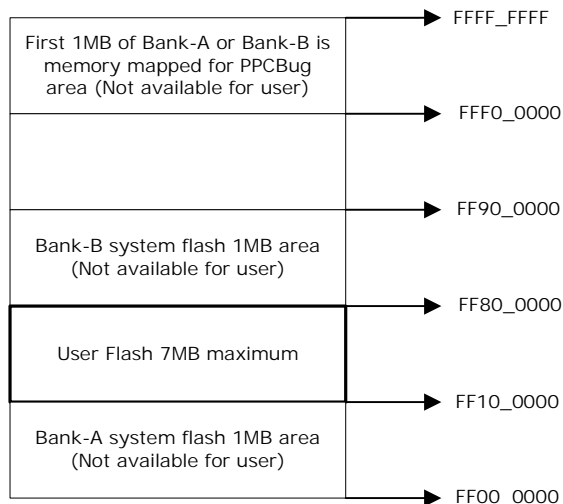


Figure 2-1: Memory Range Diagram

Use the following procedure to download BlueCat Linux into target flash memory and boot the BlueCat Linux kernel.

1. Set up PPC-Bug with the `env` command to network boot the PReP image.

```
PPC6-Bug>env
...
Network PReP-Boot Mode Enable [Y/N] = Y? y
...
Update Non-Volatile Memory (Y/N)? y
Reset Local System (CPU) (Y/N)? y
```

After the board resets, it is ready for network-based booting. Optionally, set the networking options using the `niot` command.

2. Download BlueCat Linux over the network using the `nbh` command. Execute `nbh` in one of two ways:

```
PPC6-Bug>nbh
PPC6-Bug>nbh 0 0 client_ip host_ip
```

Remember where the address and residual data is located. The residual data is an area of memory where board specific configuration data is available.

This residual address is displayed after every successful download of an image file over the network. The residual data is also available in GPR3 immediately after a successful download of the image.

```
...
Residual-Data Located at: $03F87000
...
```

Here, `$03F87000` is the address where residual data is kept.

The PPC6-BUG stores the image address in GPR4. This value can be found in the register dump, pointed at by the firmware once the image downloads successfully. Typically, it is `0x5000`.

```
PPC6-Bug>nbh

Network Booting from: DEC21143, Controller 0, Device 0
Device Name: /pci@80000000/pci1011,19@e,0:0,0
Loading: /tftpboot/prpmc750/ping.prp

Client IP Address      = 1.0.0.250
Server IP Address     = 1.0.0.104
Gateway IP Address    = 0.0.0.0
Subnet IP Address Mask = 255.255.255.0
Boot File Name        = /tftpboot/prpmc750/ping.prp
```

```
Argument File Name      =

Network Boot File load in progress... To abort hit
<BREAK>

Bytes Received =&1251840, Bytes Loaded =&1251840
Bytes/Second   =&16049, Elapsed Time =78 Second(s)

Residual-Data Located at: $03F87000
IP=0000C000 MSR=00003040 CR=00000000 FPSCR=00000000
R0=00000000 R1=03F87000 R2=00000000 R3=03F87000
R4=00005000 R5=00000000 R6=00000000 R7=00000000
R8=00000000 R9=00000000 R10=00000000 R11=00000000
R12=00000000 R13=00000000 R14=00000000 R15=00000000
R16=00000000 R17=00000000 R18=00000000 R19=00000000
R20=00000000 R21=00000000 R22=00000000 R23=00000000
R24=00000000 R25=00000000 R26=00000000 R27=00000000
R28=00000000 R29=00000000 R30=00000000 R31=00000000
SPR0=00000000 SPR1=00000000 SPR8=00000000
SPR9=00000000
0000C000 48000005 BL          $0000C004
```

The screen output above is the contents of the register after running the `nbh` command.

3. Immediately after the image download over TFTP is complete, move the residual data to RAM. The size of the residual data is normally fixed (`0x6c00`). This is required to move the residual data inside the image area.

```
bm address_of_residual_data:6c00 address_of_image +
0x400 ;B
```

For the example shown above, the command would be:

```
PPC6-Bug>bm 3F87000:6c00 5400 ;B
```

4. Use the `pflash` command to program the PrPMC750 flash with the image. The variable `image_size` is the size of the KDI image downloaded, which can also be noted from the `Bytes_Received` variable.

```
pflash address_of_the_image:image_size flash_address ;B
```

For example, the command for a 1MB image at `0x5000` is:

```
PPC6-Bug>pflash 5000:100000 ff100000 ;B
```

5. Use the `rb` command to boot BlueCat Linux from target flash memory.

```
PPC6-Bug>rb
```

To autoboot using flash, use the `env` command:

```
PPC6-Bug>env  
Auto Boot Enable [Y/N]=N? Y
```

NOTE: *Autobooting from target flash memory attempts to locate a valid “BOOT” string in flash memory. The first valid BOOT string found is used to boot. The KDI should be set to the starting location 0xff100000 only.*

NOTE: *The Bank-A system flash area (FF00_0000-FF0F_FFFF) and Bank-B system flash area (FF80_000-FF8F_FFFF) contains the ppccbug. Even though the system flash area is mentioned as 1MB, the actual memory used in this system flash area may be less depending on the size of the ppccbug code. Even though the system flash area can be programmed, care should be taken to avoid accidental writing to this flash memory area.*

Kernel Configuration Parameters

This chapter shows the configuration of the prebuilt BlueCat Linux kernel in the PrPMC750 Target Support Package (TSP). Each table in this chapter shows a kernel configuration parameter and the options that the user would change in order to reconfigure the kernel.

Table 3-1: Kernel Configuration Parameters for the PrPMC750 TSP

Parameters	Table Number
Platform Support	Table 3-2 on page 18
General Setup	Table 3-3 on page 19
Plug And Play Support	Table 3-4 on page 20
Memory Technology Devices (MTD)	Table 3-5 on page 20
Modular Advanced Power Management (MAPM)	Table 3-6 on page 20
Block Devices	Table 3-7 on page 20
Networking Devices	Table 3-8 on page 22
QoS and/or Fair Queueing	Table 3-9 on page 23
SCSI Support	Table 3-10 on page 23
SCSI Low-Level Drivers	Table 3-11 on page 23
Network Device Support	Table 3-12 on page 24
ARCnet Drivers	Table 3-13 on page 24
Ethernet (10 or 100 Mbit)	Table 3-14 on page 24
Token Ring Devices	Table 3-15 on page 26

Table 3-1: Kernel Configuration Parameters for the PrPMC750 TSP (Continued)

Parameters	Table Number
WAN Interfaces	Table 3-16 on page 26
Amateur Radio Support	Table 3-17 on page 27
ISDN Subsystem	Table 3-18 on page 27
Old CD-ROM Drivers (not SCSI or IDE)	Table 3-19 on page 27
Character Devices	Table 3-20 on page 27
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Video for Linux	Table 3-22 on page 28
Joystick Support	Table 3-23 on page 28
Floppy Tape Device Driver, Ftape	Table 3-24 on page 29
USB Drivers	Table 3-25 on page 29
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Network Filesystems	Table 3-27 on page 30
Partitions Types	Table 3-28 on page 30
Sound	Table 3-29 on page 31
Kernel Hacking	Table 3-30 on page 31

Table 3-2: Platform Support

Option	Value	Description
CONFIG_PPC	Y	PowerPC Architecture
CONFIG_6xx	Y	6xx/7xx Processor type
CONFIG_PREP	Y	PREP Machine type
CONFIG_SMP	N	Symmetric multi-processing support
CONFIG_BLUECAT_PPMC750	Y	Support for the Motorola PPMC750 processor

Table 3-3: General Setup

Option	Value	Description
CONFIG_EXPERIMENTAL	N	Prompts for development and/or incomplete code/drivers
CONFIG_MODULES	Y	Enables loadable module support
CONFIG_MODVERSIONS	Y	Sets version information on all symbols for modules
CONFIG_KMOD	Y	Kernel module loader
CONFIG_PCI_QUIRKS	N	PCI quirks
CONFIG_PCI_OLD_PROC	Y	Backward-compatible <code>/proc/pci</code>
CONFIG_NET	Y	Networking support
CONFIG_BLUECAT_IGNORE_PRINTK	N	BlueCat Linux ignore <code>printk</code>
CONFIG_BLUECAT_SMALL_FOOTPRINT	N	BlueCat Linux small memory footprint
CONFIG_BLUECAT_MEMSIZE	N	Memory usage statistics
CONFIG_SYSCTL	Y	Sysctl support
CONFIG_SYSVIPC	Y	System V IPC
CONFIG_BSD_PROCESS_ACCT	N	BSD Process Accounting
CONFIG_BINFMT_MISC	N	Kernel support for MISC binaries
CONFIG_BINFMT_JAVA	N	Kernel support for JAVA binaries (Obsolete)
CONFIG_PARPORT	N	Parallel port support
CONFIG_VGA_CONSOLE	N	Support for VGA Console
CONFIG_FB	N	Support for frame buffer devices
CONFIG_PMAC_PBOOK	N	Power Management support for Apple PowerBooks
CONFIG_MAC_KEYBOARD	N	Support for PowerMac keyboard
CONFIG_MAC_FLOPPY	N	Support for PowerMac floppy
CONFIG_MAC_SERIAL	N	Support for PowerMac serial parts
CONFIG_ADBMOUSE	N	Support for PowerMac ADB mouse

Table 3-3: General Setup (Continued)

Option	Value	Description
CONFIG_PROC_DEVICETREE	N	Support for Open Firmware device tree in /proc
CONFIG_TOTALMP	N	Support for TotalImpact TotalMP
CONFIG_BOOTX_TEXT	N	Support for early boot text console (BootX only)
CONFIG_MOTOROLA_HOTSWAP	N	Support for Motorola Hot Swap
CONFIG_CMDLINE_BOOL	N	PReP boot loader kernel arguments

Table 3-4: Plug and Play Support

Option	Value	Description
CONFIG_PNP	N	Plug and Play support

Table 3-5: Memory Technology Device (MTD)

Option	Value	Description
CONFIG_MTD	Y	Memory Technology Device (MTD) support

Table 3-6: Modular Advanced Power Management (MAPM)

Option	Value	Description
CONFIG_MAPM	N	Modular Advanced Power Management Support

Table 3-7: Block Devices

Option	Value	Description
CONFIG_BLK_DEV_FD	N	Normal PC floppy disk support
CONFIG_BLK_DEV_IDE	N	Enhanced IDE/MFM/RLL disk/ CD-ROM/tape/floppy support

Table 3-7: Block Devices (Continued)

Option	Value	Description
CONFIG_BLK_DEV_HD_IDE	N	Uses old disk-only driver on primary interface
CONFIG_BLK_DEV_IDEDISK	N	Includes IDE/ATA-2 DISK support
CONFIG_BLK_DEV_IDECD	N	Includes IDE/ATAPI CDROM support
CONFIG_BLK_DEV_IDETAPE	N	Includes IDE/ATAPI TAPE support
CONFIG_BLK_DEV_IDEFLOPPY	N	Includes IDE/ATAPI FLOPPY support
CONFIG_BLK_DEV_IDESCSI	N	SCSI emulation support
CONFIG_BLK_DEV_CMD640	N	CMD640 chipset bugfix/support
CONFIG_BLK_DEV_RZ1000	N	RZ1000 chipset bugfix/support
CONFIG_BLK_DEV_IDEPCI	N	Generic PCI IDE chipset support
CONFIG_BLK_DEV_IDEDMA	N	Generic PCI bus-master DMA support
CONFIG_BLK_DEV_OFFBOARD	N	Boots off-board chipset first support
CONFIG_BLK_DEV_OPTI621	N	OPTi 82C621 chipset enhanced support (Experimental)
CONFIG_BLK_DEV_SL82C105	N	Winbond SL82c105 support
CONFIG_IDE_CHIPSETS	N	Other IDE chipset support
CONFIG_BLK_DEV_LOOP	Y	Loopback device support
CONFIG_BLK_DEV_NBD	N	Network block device support
CONFIG_BLK_DEV_MD	N	Multiple device driver support
CONFIG_BLK_DEV_RAM	Y	RAM disk support
CONFIG_BLK_DEV_INITRD	N	Initial RAM disk (3) support
CONFIG_BLUECAT_RFS	Y	BlueCat Linux RFS support
CONFIG_BLK_DEV_GENERIC_FLASH_DOC	N	M-System DiskOnChip
CONFIG_BLK_DEV_XD	N	XT hard disk support
CONFIG_BLK_DEV_DAC960	N	Mylex DAC960/DAC1 100 PCI RAID Controller support

Table 3-7: Block Devices (Continued)

Option	Value	Description
CONFIG_PARIDE_PARPORT	N	Parallel port IDE device support
CONFIG_BLK_CPQ_DA	N	Compaq SMART2 support

Table 3-8: Networking Options

Option	Value	Description
CONFIG_PACKET	N	Packet socket
CONFIG_NETLINK	N	Kernel/User netlink socket
CONFIG_FIREWALL	N	Network firewalls
CONFIG_FILTER	N	Socket filtering
CONFIG_UNIX	Y	UNIX domain sockets
CONFIG_INET	Y	TCP/IP networking
CONFIG_IP_MULTICAST	N	IP: Multicasting
CONFIG_IP_ADVANCED_ROUTER	N	IP: Advanced router
CONFIG_IP_PNP	N	IP: Kernel level autoconfiguration
CONFIG_IP_ROUTER	N	IP: Optimizes as router not host
CONFIG_NET_IPIP	N	IP: Tunneling
CONFIG_NET_IPGRE	N	IP: GRE tunnels over IP
CONFIG_IP_ALIAS	N	IP: Aliasing support
CONFIG_SYN_COOKIES	Y	IP: TCP syncookie support (Not enabled per default)
CONFIG_INET_RARP	N	IP: Reverse ARP
CONFIG_SKB_LARGE	Y	IP: Allows large windows (not recommended if <16 MB of memory)
CONFIG_IPV6	N	The IPv6 protocol (Experimental)
CONFIG_IPX	N	The IPX protocol

Table 3-8: Networking Options (Continued)

Option	Value	Description
CONFIG_ATALK	N	Appletalk DDP
CONFIG_X25	N	CCITT X.25 Packet Laser (Experimental)
CONFIG_LAPB	N	LAPB Data Link Driver (Experimental)
CONFIG_BRIDGE	N	Bridging (Experimental)
CONFIG_LLC	N	802.2 LLC (Experimental)
CONFIG_ECONET	N	Acorn Econet/AUN protocols (Experimental)
CONFIG_WAN_ROUTER	N	WAN router
CONFIG_NET_FASTROUTE	N	Fast switching
CONFIG_NET_HW_FLOWCONTROL	N	Forwarding between high speed interfaces
CONFIG_CPU_IS_SLOW	N	CPU is too slow to handle full bandwidth

Table 3-9: QoS and/or Fair Queueing

Option	Value	Description
CONFIG_NET_SCHED	Not Set	QoS and/or fair queueing

Table 3-10: SCSI Support

Option	Value	Description
CONFIG_SCSI	N	SCSI support

Table 3-11: SCSI Low-Level Drivers

Option	Value	Description
CONFIG_SCSI_G_NCR5380_PORT	Not Set	SCSI low-level drivers NCR5380/53c400 mapping method (use Port for T130B) (PORT)

Table 3-12: Network Device Support

Option	Value	Description
CONFIG_NETDEVICES	Y	Network device support
CONFIG_DUMMY	N	Dummy net driver support
CONFIG_EQUALIZER	N	EQL (serial line load balancing) support
CONFIG_NET_SB1000	N	General Instruments Surfboard 1000
CONFIG_FDDI	N	FDDI driver support
CONFIG_HIPPI	N	HIPPI driver support (Experimental)
CONFIG_PPP	Y	PPP (point-to-point) support
CONFIG_SLIP	N	SLIP (serial line) support
CONFIG_NET_RADIO	N	Wireless LAN (non-ham radio)
CONFIG_NET_FC	N	Fibre Channel driver support
CONFIG_RCPCI	N	Red Greek Hardware VPN (Experimental)
CONFIG_SHAPER	N	Traffic Shaper (Experimental)
CONFIG_SBNI	N	SBNI 12-xx support

Table 3-13: ARCnet Drivers

Option	Value	Description
CONFIG_ARCNET	N	ARCnet support

Table 3-14: Ethernet (10 or 100 Mbit)

Option	Value	Description
CONFIG_NET_ETHERNET	Y	Ethernet (10 or 100 Mbit)
CONFIG_MACE	N	MACE (Power Mac Ethernet) support
CONFIG_BMAC	N	BMAC (G3 Ethernet) support

Table 3-14: Ethernet (10 or 100 Mbit) (Continued)

Option	Value	Description
CONFIG_NET_VENDOR_3COM	N	3COM cards
CONFIG_LANCE	N	AMD LANCE and PCnet (AT 1500 and NE2100) support
CONFIG_NET_VENDOR_SMC	N	Western Digital/SMC cards
CONFIG_NET_VENDOR_RACAL	N	Racal-Interlan (micom) NI cards
CONFIG_RTL8139	N	RealTek 8129/8139 (not 8019/8029) support
CONFIG_SIS900	N	SiS 900 PCI Fast Ethernet Adapter support
CONFIG_YELLOWFIN	N	Packet Engines Yellowfin Gigabit- NIC support
CONFIG_NET_ISA	N	Other ISA cards
CONFIG_NET_EISA	Y	EISA, VLB, PCI and on-board controllers
CONFIG_PCNET32	N	AMD PCnet32 (VLB and PCI) support
CONFIG_ACEMIC	N	Alteon AceNIC/3Com 3C985/NetGear GA620 Gigabit support
CONFIG_AC3200	N	Ansel Communications EIA 3200 support (Experimental)
CONFIG_APRICOT	N	Apricot Xen-II on board ethernet
CONFIG_CS89x0	N	CS89x0 support
CONFIG_DM9102	N	DM9102 PCI Fast Ethernet Adapter support (Experimental)
CONFIG_DE4X5	Y	Generic DECchip & DIGITAL EtherWORKS PCI/EISA
CONFIG_BLUECAT_DE4X5_WORK_AROUND	Y	Fix for buggy SROM on Motorola MCP(N)750 cPCI board
CONFIG_DEC_ELCP	N	DECchip Tulip (dc21x4x) PCI support
CONFIG_DGRS	N	Digi Intl. RightSwitch SE-Xsupport
CONFIG_EEXPRESS_PRO100	N	Ether ExpressPro/100 support
CONFIG_LINE390	N	Mylex EISA LNE390A/B support (Experimental)

Table 3-14: Ethernet (10 or 100 Mbit) (Continued)

Option	Value	Description
CONFIG_NET3210	N	Novell/Eagle/Microdyne NE3210 EISA support (Experimental)
CONFIG_NE2K_PCI	N	PCI NE2000 support
CONFIG_TLAN	N	TI ThunderLAN support
CONFIG_VIA_RHINE	N	VIA Rhine support
CONFIG_ES3210	N	Racal-Interlan EISA ES3210 support (Experimental)
CONFIG_EPIC100	N	SMC EtherPower II (Experimental)
CONFIG_ZNET	N	Zenith-Note support (Experimental)
CONFIG_NET_POCKET	N	Pocket and portable adaptors

Table 3-15: Token Ring Devices

Option	Value	Description
CONFIG_TR	N	Token Ring driver support

Table 3-16: WAN Interfaces

Option	Value	Description
CONFIG_HOSTESS_SV11	N	Control Hostess SV-11 support
CONFIG_COSA	N	COSA/SRP sync serial boards support
CONFIG_SEALEVEL_4021	N	Sealevel Systems 4021 support
CONFIG_DLCI	N	Frame relay DLCI support

Table 3-17: Amateur Radio Support

Option	Value	Description
CONFIG_HAMRADIO	N	Amateur radio support

Table 3-18: ISDN Subsystem

Option	Value	Description
CONFIG_ISDN	N	ISDN support

Table 3-19: Old CD-ROM drivers (not SCSI or IDE)

Option	Value	Description
CONFIG_CD_NO_IDESCSI	N	Supports non-SCSI/IDE/ATARI CD-ROM drivers

Table 3-20: Character Devices

Option	Value	Description
CONFIG_VT	N	Virtual terminal
CONFIG_VT_CONSOLE	N	Support for console on virtual terminal
CONFIG_SERIAL	Y	Standard/generic (dumb) serial support
CONFIG_SERIAL_CONSOLE	Y	Support for console on serial port
CONFIG_SERIAL_EXTENDED	N	Extended dumb serial driver options
CONFIG_SERIAL_NONSTANDARD	N	Non-standard serial port support
CONFIG_UNIX98_PTYS	N	UNIX98 PTY support
CONFIG_MOUSE	Y	Mouse support (not serial mice)
CONFIG_QIC02_TAPE	N	QIC-02 tape support
CONFIG_WATCHDOG	N	Watchdog Timer support

Table 3-20: Character Devices (Continued)

Option	Value	Description
CONFIG_NVRAM	N	/dev/nvram support
CONFIG_RTC	N	Enhanced Real Time Clock support
CONFIG_DTLK	N	Double Talk PC internal speech card support

Table 3-21: Mice

Option	Value	Description
CONFIG_ATIXL_BUSMOUSE	N	ATIXL busmouse support
CONFIG_BUSMOUSE	N	Logitech busmouse support
CONFIG_MS_BUSMOUSE	N	Microsoft busmouse support
CONFIG_PSMOUSE	N	PS/2 mouse (aka “auxiliary device”) support
CONFIG_82C710_MOUSE	N	C&T 82C710 mouse port support (as on TI Travelmate)
CONFIG_PC110_PAD	N	PC110 Digitizer pad support

Table 3-22: Video for Linux

Option	Value	Description
CONFIG_VIDEO_DEV	N	Video for Linux

Table 3-23: Joystick Support

Option	Value	Description
CONFIG_JOYSTICK	N	Joystick support

Table 3-24: Floppy Tape Device Driver, Ftape

Option	Value	Description
CONFIG_FTAPE	N	Ftape (QIC-80/Travan) support
CONFIG_FT_NORMAL_DEBUG	Not Set	Debugging output
CONFIG_FT_FULL_DEBUG	Not Set	Not Debugging

Table 3-25: USB Driver

Option	Value	Description
CONFIG_USB	Not Set	Support for USB (Experimental)

Table 3-26: Filesystems

Option	Value	Description
CONFIG_QUOTA	N	Quota support
CONFIG_AUTOFS_FS	N	Kernel automounter support
CONFIG_ADFS_FS	N	ADFS filesystem support (Read-only) (Experimental)
CONFIG_AFFS_FS	N	Amiga FFS filesystem support
CONFIG_HFS_FS	N	Apple Macintosh filesystem support (Experimental)
CONFIG_FAT_FS	N	DOS FAT filesystem support
CONFIG_ISO9660_FS	N	ISO 9660 CD-ROM filesystem support
CONFIG_JOLIET	N	Microsoft Joliet CD-ROM extensions
CONFIG_MINIX_FS	N	Minix filesystem support
CONFIG_NTFS_FS	N	NTFS filesystem support (Read-only)
CONFIG_HPFS_FS	N	OS/2 HPFS filesystem support (Read-only)
CONFIG_PROC_FS	Y	/proc filesystem support
CONFIG_QNX4FS_FS	N	QNX filesystem support (Experimental)

Table 3-26: Filesystems (Continued)

Option	Value	Description
CONFIG_ROMFS_FS	N	ROM filesystem support
CONFIG_EXT2_FS	Y	Second extended filesystem support
CONFIG_SYSV_FS	N	System V and Coherent filesystem support
CONFIG_UFS_FS	N	UFS filesystem support
CONFIG_EFS_FS	N	SGI EFS filesystem support (Read-only) (Experimental)

Table 3-27: Network Filesystems

Option	Value	Description
CONFIG_CODA_FS	N	Coda filesystem support (advanced network filesystem)
CONFIG_NFS_FS	Y	NFS filesystem support
CONFIG_NFSD	N	NFS server support
CONFIG_SMB_FS	N	SMB filesystem support (to mount WfW shares, etc.)
CONFIG_NCP_FS	N	NCP filesystem support (to mount NetWare volumes)

Table 3-28: Partition Types

Option	Value	Description
CONFIG_BSD_DISKLABEL	N	BSD disklabel (BSD partition tables) support
CONFIG_MAC_PARTITION	N	Macintosh partition map support
CONFIG_SMD_DISKLABEL	N	SMD disklabel (Sun partition tables) support
CONFIG_SOLARIS_x86_PARTITION	N	Solaris (x86) partition table support
CONFIG_UNIXWARE_DISKLABEL	N	UnixWare slices support (Experimental)

Table 3-29: Sound

Option	Value	Description
CONFIG_SOUND	N	Sound card support

Table 3-30: Kernel Hacking

Option	Value	Description
CONFIG_MAGIC_SYSRQ	N	Magic SysRq key
CONFIG_KGDB	N	Includes <code>kgdb</code> kernel debugger
CONFIG_BLUECAT_KDBG	N	Includes <code>kdbg</code> kernel debugger
CONFIG_XMON	N	Includes <code>xmon</code> kernel debugger

Hawk PCI Host Bridge Configuration

Refer to the *PPMC Extended Processor PMC Module Programmers Reference Guide* for the default memory map provided by the HAWK ASIC. The memory map followed in the BlueCat Linux kernel is based on the PREP memory configuration.

The PPC Map of PHB (PCI Host Bridge) is specified in the *PPMC Extended Processor PMC Module Programmers Reference Guide*.

Refer to the *PPMC Extended Processor PMC Module Programmers Reference Guide* for details on MPIC Interrupt Assignments. A typical Hawk configuration applicable for BlueCat Linux is provided for reference:

What follows are the contents of PHB registers on initialization:

```

PPC6-Bug> md feff0000:25
FEFF0000 10574803 00010000 00A00000 00616000 .WH.....a`.
FEFF0010 0300009C 00000000 00000000 00000000 .....
FEFF0020 00000000 000000A0 FF7F96F8 0000002A .....*
FEFF0030 FFFFFFFF 00000000 00000000 00000000 .....
FEFF0040 FD00FDFD 030000D2 FE00FE7F 020000C0 .....
FEFF0050 C000FCFF 400000D2 8000BF7F 800000C0 ....@.....
FEFF0060 000FFFFF 0000FFFF 0000FFFF 0000FFFF .....
FEFF0070 03FE0000 00000000 00000000 FFFFFFFF .....
FEFF0080 FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF .....
FEFF0090 FFFFFFFF .....

```

MPIC parameters

BlueCat Linux also provides support for OpenPIC. The following MPIC parameters are provided for reference:

What follows are the contents of MPIC registers upon initialization:

```
fbf81000=f0100      fbf81010=0          fbf81020=20000000
fbf81030=0          fbf81040=0          fbf81050=0
fbf81060=0          fbf81070=0          fbf81080=0
fbf81090=0          fbf810a0=80000050  fbf810b0=80000051
fbf810c0=80000052  fbf810d0=80000053  fbf810e0=63
fbf810f0=bebc70    fbf81100=0          fbf81110=80000000
fbf81120=80000040  fbf81130=0          fbf81140=0
fbf81150=80000000  fbf81160=80000041  fbf81170=0
fbf81180=0          fbf81190=80000000  fbf811a0=80000042
fbf811b0=0          fbf811c0=0          fbf811d0=80000000
fbf811e0=80000043  fbf811f0=0          fbf81200=0
fbf90000=40880010  fbf90010=1          fbf90020=80080011
fbf90030=1          fbf90040=80480012  fbf90050=1
fbf90060=80480013  fbf90070=1          fbf90080=80480014
fbf90090=1          fbf900a0=80480015  fbf900b0=1
fbf900c0=80480016  fbf900d0=1          fbf900e0=80480017
fbf900f0=1          fbf90100=80480018  fbf90110=1
fbf90120=80480019  fbf90130=1          fbf90140=8048001a
fbf90150=1          fbf90160=8048001b  fbf90170=1
fbf90180=8048001c  fbf90190=1          fbf901a0=8048001d
fbf901b0=1          fbf901c0=8048001e  fbf901d0=1
fbf901e0=8048001f  fbf901f0=1          fbf90200=80400000
fbf90210=0          fbf90220=0          fbf90230=0
fbfa0050=0          fbfa0060=0          fbfa0070=0
```

Supported Demo Systems

Table 4-1 lists the demo systems supported by the PrPMC750 TSP. The boot devices supported by the prebuilt demo systems included in the distribution are shown.

Table 4-1: Supported Demo Systems

Demo System	Requirements	Boot Devices Supported by Default
gdb	Storage: Tiny RAM: Small Network: Yes Disk: None Special: Host and target machines must be connected by a serial line to use remote debugging via a serial line. This is available on PrPMC750-2141 only.	Flash, Network using firmware
hello	Storage: Tiny RAM: Tiny Network: None Disk: None Special: None	Flash, Network using firmware
kdbg	Storage: Tiny RAM: Small Network: None Disk: None Special: Host and target machines must be connected by a serial line to use remote debugging via a serial line. This is available on PrPMC750-2141 only.	Flash, Network using firmware

Table 4-1: Supported Demo Systems (Continued)

Demo System	Requirements	Boot Devices Supported by Default
memsizer	Storage: Tiny RAM: Small Network: None Disk: None Special: None	Flash, Network using firmware
Osloader	Storage: Tiny RAM: Tiny Network: Yes Disk: None Special: None	Flash, Network using firmware
ping	Storage: Tiny RAM: Small Network: Yes Disk: None Special: None	Flash, Network using firmware
shell	Storage: Tiny RAM: Small Network: None Disk: None Special: None	Flash, Network using firmware
rcp	Storage: Tiny RAM: Small Network: Yes Disk: None Special: None	Flash, Network using firmware

Running BlueCat Linux Demo Systems on PrPMC750

Setting up Softlinks on the TFTP Server for Demo Systems

Softlinks to various demo system files allow for multiple copies of BlueCat Linux on the host machine. A utility to create softlinks for all the files of the demo systems provided under the `/tftpboot` directory has been provided. This utility is called `tftp_links.sh`. This utility can be invoked as follows:

```
# cd $BLUECAT_PREFIX/demo
# ./tftp_links.sh prpmc750
```

where `prpmc750` is the name of the directory to be created under `/tftpboot`. This creates softlinks for all the files of the demo systems as shown below:

```
/tftpboot/prpmc750/demo/hello.prp ->
/$BLUECAT_PREFIX/demo/hello/hello.kdi
```

Setting up a TFTP Server on Windows Hosts

As Windows machines do not come with TFTP servers, a TFTP server must actually be installed on a Windows host.

Supported Device Drivers

Table 5-1 lists the device drivers supported by the PrPMC750 TSP.

Table 5-1: Supported Device Drivers

Hardware Device	Device Drivers	Location in Source Tree	Kernel Configuration Options	Notes
Ethernet Controller DEC 21143	Generic DECchip driver	drivers/net de4x5.c	CONFIG_DE4X5	Driver tested. Only de4x5.c file tested for this chipset, and not the tulip.c driver.
Serial ports One TL16C550A UART - compatible async serial ports with RS- 232 interface	Modified version of generic serial driver	drivers/char/ serial.c	CONFIG_SERIAL	This is a BlueCat Linux port of the serial driver.

install_prpmc750.sh

Command Reference

NAME

`install_prpmc750.sh` — Installs the TSP on the specified base distribution

SYNOPSIS

`install_prpmc750.sh [-i -v] -xy/n -btsp_name \
-dabsolute_path_of_base_directory`

OPTIONS

- i Specification to run in “info mode”
- v Specification to run in “verbose mode”
- x Specifies whether the install command retains the base demo systems. Install if argument is set to *y*
- b Specifies the Target Support Package (TSP) name
- d Specifies the absolute path where base (`cpci_mcp750`) binaries are installed.

NOTE: *No spaces should be entered between the argument and options for this script (between -m and “mountpoint,” and -d and “absolute_path_of_base_directory”).*

DESCRIPTION

This program runs in three modes:

- Info mode
- Normal mode
- Verbose mode

The `install_prpmc750.sh` program also copies two additional files named `uninstall.sh` and `change_prpmc750` for uninstallation of the TSP and restoration of the base (`cpci_mcp750`).

Info Mode

In information mode, only information about the files is provided. No installation takes place. This mode displays all TSPs and RPMs to be installed. Use the `-i` option to activate this mode.

To obtain a list of TSPs to be installed, use the following command:

```
./install_prpmc750.sh -i -absolute_path_of_base_directory
```

To obtain a list of RPMs to be installed and deleted, use the following command:

```
./install_prpmc750.sh -i -btsp_name \  
-absolute_path_of_base_directory
```

Normal Mode

This mode installs the TSP on the specified base. All messages are sent to the console in this mode; no messages are logged.

To activate normal mode, use the following command:

```
./install_prpmc750.sh -xy -btsp_name \  
-absolute_path_of_base_directory
```

If the `-x` option is specified with `y` then the install command retains all of the base (`cpci_mcp750`) demo systems that are not supported by the PrPMC750 TSP.

Verbose Mode

This mode is used in conjunction with the normal mode. Installation messages are appended to a file instead of being sent to the console. Installation logs output to a file in the `/home/bc1` directory named `v_install_sh.log`.

For verbose mode, use the `-v` option.

```
./install_prpmc750.sh -v -xy -btsp_name \  
-dabsolute_path_of_base_directory
```

Command Reference

NAME

`uninstall.sh` — Uninstalls the TSP from the specified base distribution

SYNOPSIS

`uninstall.sh [-i] -m mountpoint -d absolute_path_of_tsp`

- `-i` Specification to run in info mode
- `-m` Specifies the mountpoint of the base (cpci_mcp750) CD
- `-d` Specifies the absolute path where the TSP is installed

NOTE: *No spaces should be entered between the argument and options for this script (between `-m` and “mountpoint,” and `-d` and “absolute_path_of_tsp”).*

DESCRIPTION

This program runs in two modes:

- Info mode
- Uninstall mode

Info mode

This option only displays information regarding the TSPs and RPMs to be removed and inserted. No actual removal or installation takes place. For the information mode:

```
./uninstall.sh -i -mmountpoint -dabsolute_path_of_tsp
```

Uninstall Mode

To uninstall the TSP from the base (cpci_mcp750), use the following command:

```
./uninstall.sh -mmountpoint -dabsolute_path_of_tsp
```