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pi@linuxcnc:~ $ sudo git clone http://github.com/linuxcnc/mesaflash
Cloning into 'mesaflash'...
warning: redirecting to https://github.com/linuxcnc/mesaflash/
remote: Enumerating objects: 2072, done.
remote: Counting objects: 100% (415/415), done.
remote: Compressing objects: 100% (193/193), done.
remote: Total 2072 (delta 249), reused 353 (delta 215), pack-reused 1657
Receiving objects: 100% (2072/2072), 856.77 KiB | 2.33 MiB/s, done.
Resolving deltas: 100% (1446/1446), done.
pi@linuxcnc:~ $ cd mesaflash
pi@linuxcnc:~/mesaflash $ make
Makefile:56: *** "pkg-config can't find libpci". Stop.
pi@linuxcnc:~/mesaflash $ sudo apt-get install libpci-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  libpci-dev
0 upgraded, 1 newly installed, 0 to remove and 1 not upgraded.
Need to get 72.2 kB of archives.
After this operation, 198 kB of additional disk space will be used.
Get:1 http://mirrors.switch.ca/raspbian/raspbian buster/main armhf libpci-dev armhf 1:3.5.2-1
[72.2 kB]
Fetched 72.2 kB in 1s (90.6 kB/s)
Selecting previously unselected package libpci-dev.
(Reading database ... 109674 files and directories currently installed.)
Preparing to unpack .../libpci-dev_1%3a3.5.2-1_armhf.deb ...
Unpacking libpci-dev (1:3.5.2-1) ...
Setting up libpci-dev (1:3.5.2-1) ...
pi@linuxcnc:~/mesaflash $ sudo make
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c common.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c lbp.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c lbp16.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c bitfile.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c hostmot2.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c eeprom.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c anyio.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c eth_boards.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c epp_boards.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c usb_boards.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c pci_boards.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c sserial_module.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c encoder_module.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c eeprom_local.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c eeprom_remote.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c spi_boards.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c serial_boards.c
rm -f libanyio.a mesaflash
ar rcs libanyio.a common.o lbp.o lbp16.o bitfile.o hostmot2.o eeprom.o anyio.o eth_boards.o
epp_boards.o usb_boards.o pci_boards.o sserial_module.o encoder_module.o eeprom_local.o
eeprom_remote.o spi_boards.o serial_boards.o
ranlib libanyio.a
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c mesaflash.c

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gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-o mesaflash mesaflash.o libanyio.a -lm -lpci
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c examples/pci_encoder_read.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-o pci_encoder_read pci_encoder_read.o libanyio.a -lm -lpci
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-c examples/pci_analog_write.c
gcc -O0 -g -Wall -Wextra -Werror -std=c99 -D_GNU_SOURCE -D_FILE_OFFSET_BITS=64 -DMESAFLASH_IO=1
-o pci_analog_write pci_analog_write.o libanyio.a -lm -lpci
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pi@linuxcnc:~/mesaflash $ ls
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anyio.c	eeeprom.o	hostmot2.o	pci_boards.o
anyio.h	eeeprom_remote.c	lbp16.c	pci_encoder_read
anyio.o	eeeprom_remote.h	lbp16.h	pci_encoder_read.o
bitfile.c	eeeprom_remote.o	lbp16.o	README.md
bitfile.h	encoder_module.c	lbp.c	serial_boards.c
bitfile.o	encoder_module.h	lbp.h	serial_boards.h
boards.h	encoder_module.o	lbp.o	serial_boards.o
common.c	epp_boards.c	libanyio.a	spi_boards.c
common.h	epp_boards.h	Makefile	spi_boards.h
common.o	epp_boards.o	mesaflash	spi_boards.o
COPYING	eth_boards.c	mesaflash.1	sserial_module.c
debian	eth_boards.h	mesaflash.c	sserial_module.h
eeeprom.c	eth_boards.o	mesaflash.o	sserial_module.o
eeeprom.h	examples	pci_analog_write	types.h
eeeprom_local.c	hostmot2.c	pci_analog_write.o	usb_boards.c
eeeprom_local.h	hostmot2_def.h	pci_boards.c	usb_boards.h
eeeprom_local.o	hostmot2.h	pci_boards.h	usb_boards.o

```
pi@linuxcnc:~/mesaflash $ ./mesaflash
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Mesaflash version 3.4.0~pre1
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Configuration and diagnostic tool for Mesa Electronics PCI(E)/ETH/EPP/USB/SPI boards
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Try 'mesaflash --help' for more information
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pi@linuxcnc:~/mesaflash $ sudo ./mesaflash --device 7i92 --addr 192.168.1.121
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ETH device 7I92 at ip=192.168.1.121
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