

what is it? The microIOC devenv (development environment) is a GNU/Linux™ based SDK (software development kit) for microIOC product family. It provides the compilers, development tools, libraries, debuggers and scripts for microIOC application development and preparation of Compact Flash. The environment is installed on host computer with working GNU/Linux operating system.

The devenv and the system installed on microIOC Compact Flash share the same operating system base (same libraries, commands and utilities) and thus enable a developer to develop, build and test the software functionality of the microIOC system inside devenv.

- benefits**
- ┌ simple installation on Linux system
 - ┌ complete ABI compatibility with microIOC
 - ┌ simple configuration on Compact Flash using the flash.conf file
 - ┌ package administration through well-known Debian APT packaging system
 - ┌ simplified EPICS IOC project compiling and Compact Flash preparation using a single script

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WELCOME TO THE
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DEVELOPMENT ENVIRONMENT v2.0.0-alpha5

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| | | | | Copyright (c) 2006, 2007 by Cosylab
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WARNING: If you want to burn to flash, please unmount the device first!!!
microIOC:/#
  
```

- key features**
- ┌ development tools (gcc, g++, make, perl)
 - ┌ debugging tools (valgrind, electric-fence, gdb)
 - ┌ Linux kernel 2.6.18
 - ┌ various EPICS base packages (3.14.6, 3.14.7, 3.14.8.2 and 3.14.9)
 - ┌ support for various microIOC SBC kernels
 - ┌ scripts for compiling EPICS projects
 - ┌ scripts for preparation of bootable Compact Flashes for microIOC
 - ┌ scripts for maintaining local DEB repository
 - ┌ compatibility with official Debian repositories
 - ┌ network booting from NFS

requirements The devenv is based on Debian GNU/Linux 4.0 and should run on any Linux distribution (tested with x86 distributions Scientific Linux 4.x, Fedora Core 2, Fedora Core 4, Fedora Core 6, Ubuntu 6.x, Ubuntu 7.x and x86_64 Ubuntu 7.x distribution).

Installing and using microIOC Development Environment requires:

- ┌ installed and functional GNU/Linux system with super user (root) access or sudo privileges,
- ┌ 600MB of free disk space for installation,
- ┌ few more 100MB for development or few GB of disk space if saving backups of Compact Flash images.



**technical
specification**

Development environment technical specifications	
Base Linux distribution	Debian GNU/Linux 4.0
Linux kernel version	2.6.18
GCC suite versions	4.1.1(default), 3.4.6 and 2.95.4
EPICS base versions	3.14.6, 3.14.7, 3.14.8.2 and 3.14.9
Supported Compact Flash sizes	256MB, 512MB, 1024MB, 2048MB, 4096MB
Supported Compact Flash adapters	USB CF readers, PCMCIA CF adapters

