

~150 IOCs at
15 beamlines

OSes:

- 15 VME/VxWorks. Problem: Failing Hardware, old compiler
- 97 SoftIOC (Docker container) running in server infrastructure
- 25 Raspberry Pi
- a handful Windows IOCs



Personnel

- 1 person compiling / installing (20 %)
- 1 person building IOCs (30 %)
- 2 people writing PLC software & building boxes

Deployment

- Central NFS & SMB server
- On Boot, machines load IOC from /soft/epics/IOC/<hostname>
- Hardware IOCs boot via PXE from TFTP server
- Rolling release - update IOCs to newest EPICS/modules on request
- IOCs cross-compiled from Linux container to all architectures
- KIT build tool (since 2025), forked for cross compiling

Requirements

- Support for Raspi, Windows, Linux_x86_64
- Either well maintained, or simple enough