

Software Development and Integration



Integrated Control Systems (ICS) Application Development Environment (ADE)

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Revision 3: Nov. 10, 2001

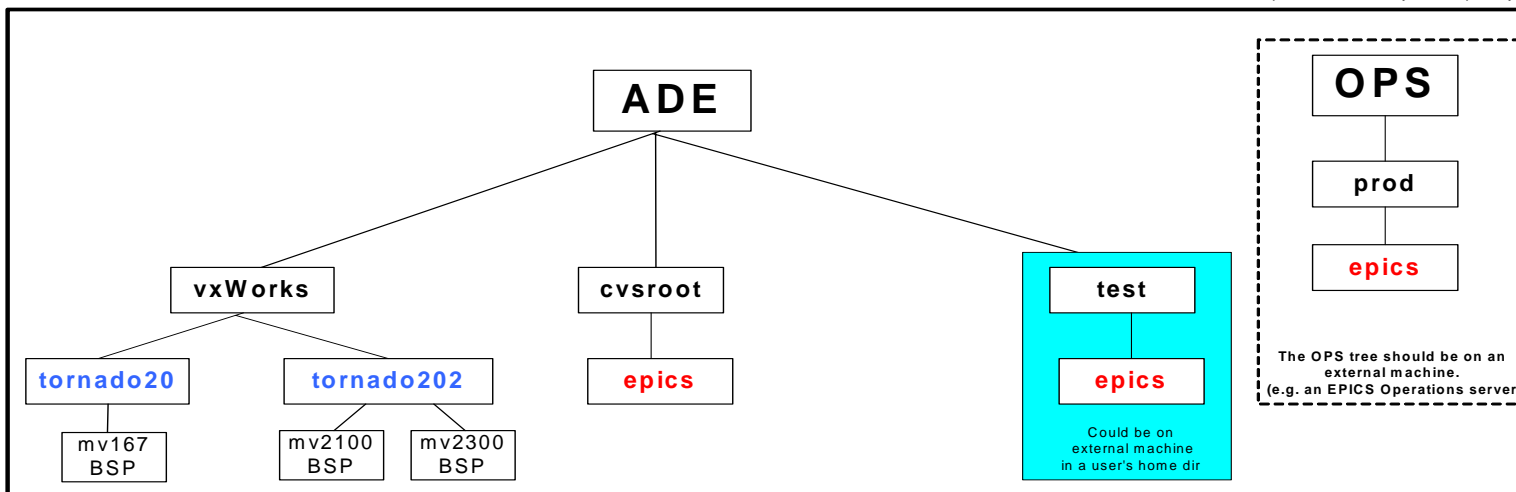
ADE Architecture Discussion



EPICS Software Application Development Environment (ADE) Architecture Ultra10 SPARC Solaris 8

ics-srv01.sns.ornl.gov
Solaris 8 (Oct. 2000 Release)
VxWorks Development
EPICS Development
and
Operator Interface

- Note Machine Features:
1. Ultra10 SPARC
 2. 256 MB of RAM
 3. 1st Hard Disk 9 GBytes
 4. 2nd Hard Disk 20 GBytes
 5. 4mm DDS Tape Back 40GBytes capacity



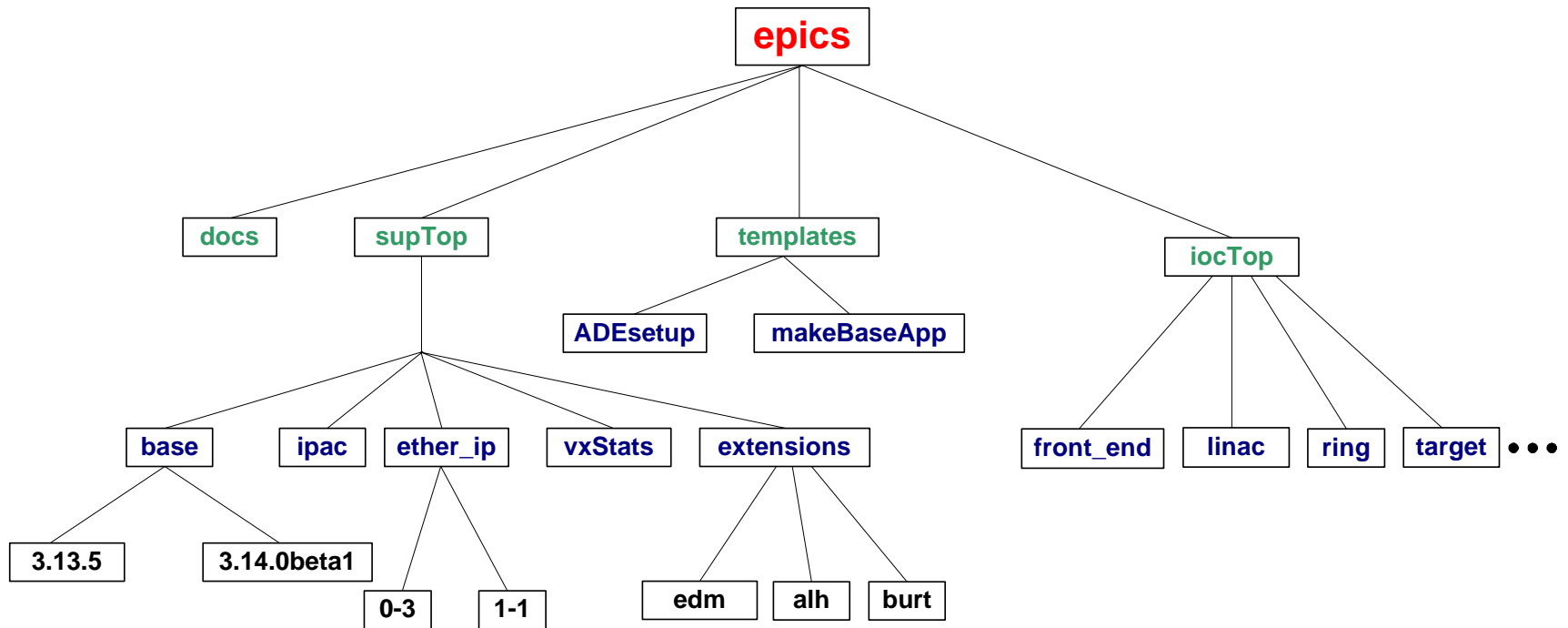
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$\$(OPS) = ics-srv01.sns.ornl.gov:/sns/OPS$ OR $\$(OPS) = <external\ machine>:/sns/ADE$

ADE Architecture Discussion (Cont'd)



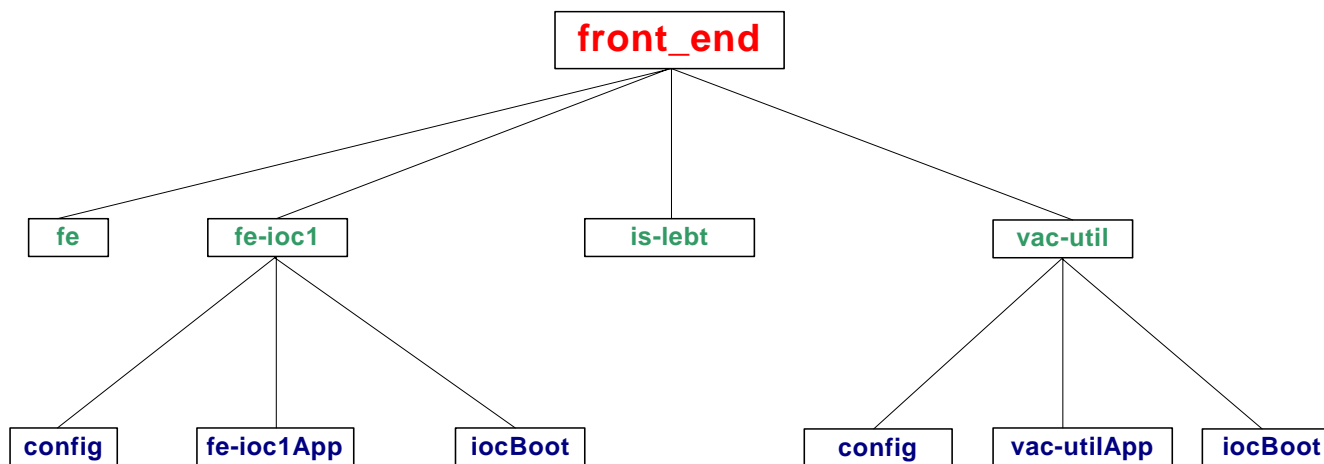
Directory Structure of EPICS at the SNS



ADE Architecture Discussion (Cont'd)



Directory Structure an iocTop within the CVS Repository



`makeBaseApp.pl -t <template> <app-name>`

where, template is either simple, example, or extended and app-name is the name of your App

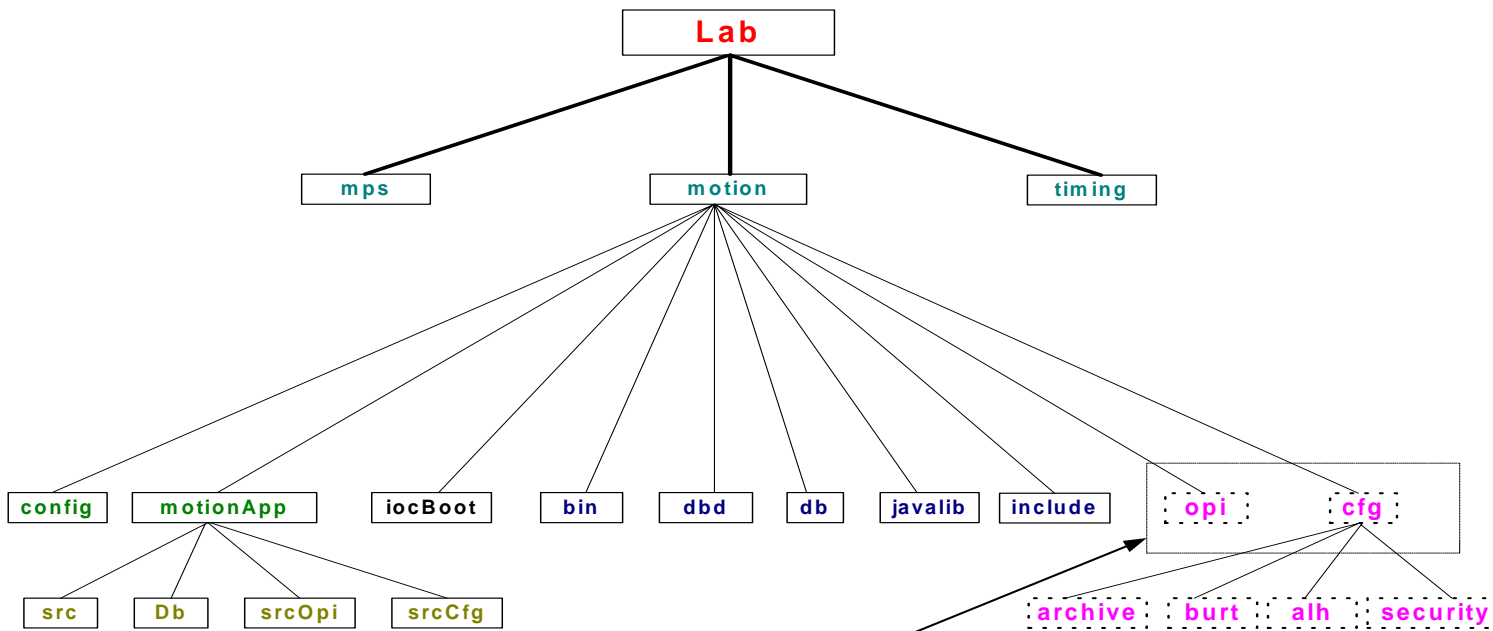
`makeBaseApp.pl -t <template> -i <ioc-app-name>`

where, template is either simple, example, or extended and ioc-app-name is the name of your ioc App

ADE Architecture Discussion (Cont'd)



Directory Structure of an iocTop application after a make

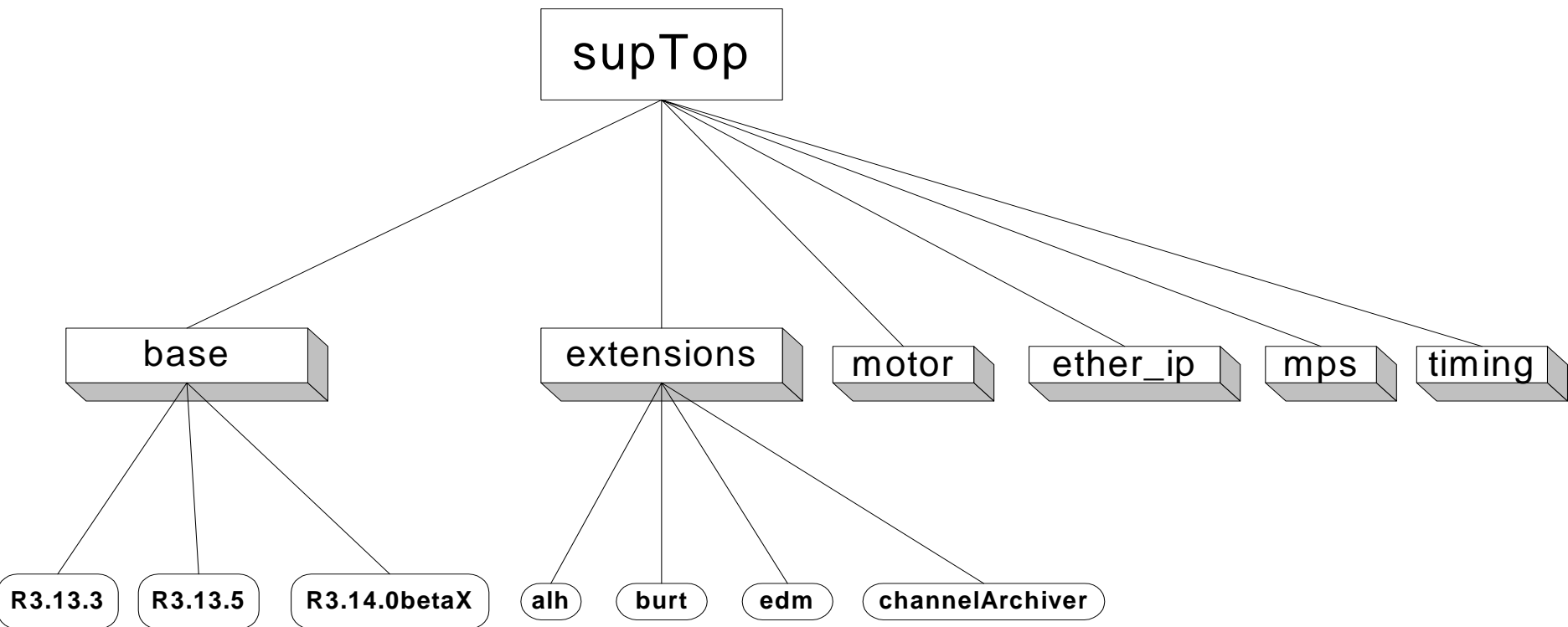


These can be added via Carl Lionberger's new extended Template and make RULES. He has already done this for front-end

ADE Architecture Discussion (Cont'd)



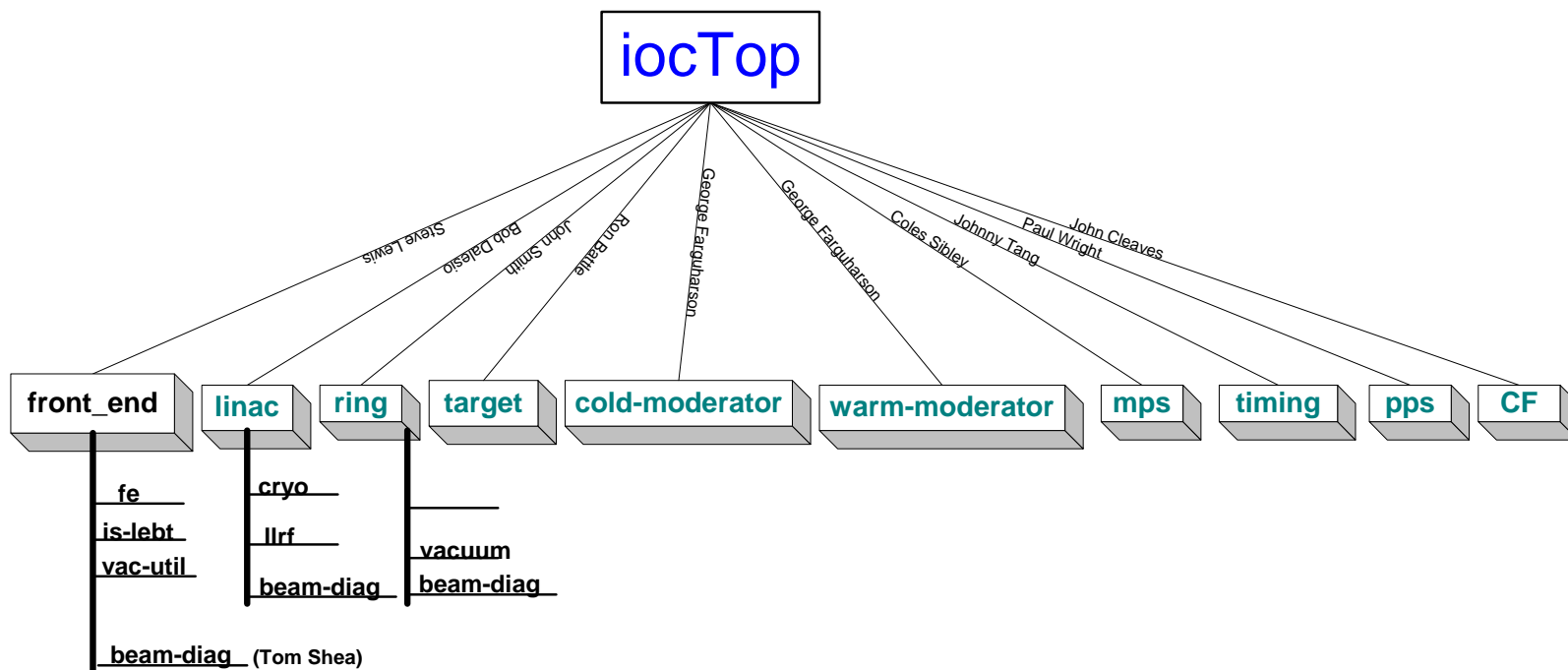
EPICS Directory Structure for applications common across multiple subsystems



ADE Architecture Discussion (Cont'd)



EPICS Directory Structure for applications



Note: Will the subsystem leads create a diagram (such as the one sent by John Cleaves for Svt) ?

ADE Architecture Discussion (Cont'd)



The EPICS system admin group will be responsible for installing and maintaining EPICS BASE and EXTENSIONS

EPICS System Admin
Unix Group ID = (epicsSys)
"CVS Controlled"

EPICS Support Top Software Developers
Unix Group ID = (epicsDev)
"CVS Controlled"

EPICS IOC Software Application Developers
Unix Group ID = (epicsApp)
"CVS Controlled"

VxWorks System Admin and Development
Unix Group ID = (vxworksDev)