ACE/TAO Development Process

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http://www.cs.wustl.edu/~levine/doc/development.ps.gz

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Overview

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- ACE/TAO Build
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ACE/TAO Build Requirements

- Unix host: GNU make
- NT host: MSVC++ or Borland
- Both: perl (for some things), cvs

Table 1: ACE/TAO Disk Space Requirements

Platform	Complete Build, Mb	Minimal Build, Mb
g++/Linux	450	
cxx/DU 4.0	650	
ghs/VxWorks	733	87

ACE/TAO Build

- `ACE_ROOT` environment variable
- `TAO_ROOT` environment variable, if not `ACE_ROOT/TAO`
- Insert `ACE_ROOT/ace` in `LD_LIBRARY_PATH` if using shared libraries (on Unix)
- Copy or symlink `ace/config.h`
- Unix: copy or symlink `include/makeinclude/platform_macros.GNU`
  `cd $ACE_ROOT; make`
- MSVC++: `build`
- Unix: `ACE_wrappers/bin/auto_compile` helps manage multiple builds

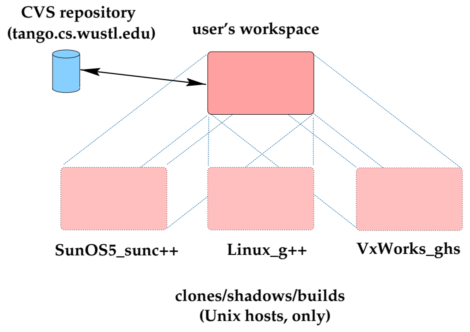
ACE/TAO Build, continued

- One-button tests: `ACE_wrappers/tests/run_tests.{sh,bat,vxworks}`
- Cross-compiling: same host setup, but replace `TAO_ROOT/TAO_IDL/` with symlink (Unix) to host-executable `TAO_IDL/`
- For more information: `ACE_wrappers/ACE-INSTALL.html`

Source Control

- CVS
- Host: `tango.cs.wustl.edu`
- Remote workspace updates can be done through CVSup. See `http://www.cs.wustl.edu/~nanbor/CVSUP/`
- For more information: `http://www.cs.wustl.edu/~levine/CVS.html`

Workspaces



- CVS Source Control
- On Unix, clone/shadow/build trees for multiple hosts
- hard links: `make clone`
- symbolic links (preferred): `bin/create_ace_build <build name>`

Releases

- Major, Minor, Beta
- Releases are from Doug's workspace at: `http://www.cs.wustl.edu/~schmidt/ACE_wrappers`
- For more information: `http://www.cs.wustl.edu/~schmidt/ACE-obtain.html`

Other Information

- ACE coding guidelines: `ACE_wrappers/etc/ACE-guidelines.html`
- Users mail list: send `subscribe ace-users` to `mail@majordomo@cs.wustl.edu`
- Newsgroup: `comp.soft-sys.ace`
  - One-way gateway from mail list to newsgroup