Source Code Version
Management and Configuration
Control

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Version Management and Configuration Control

- **CVS – Concurrent Versions System**
  - Tracks versions of files
  - Allows multiple users
  - Files stored in “repository” on CVS server
  - Check-out files from repository into “working directory” (wd); edit wd files; commit changes to repository; update files in wd
Version Management and Configuration Control

- **JSOC repository** – make and base configuration files
  - **base** – application sources, library sources, scripts, documentation (including man pages)
  - **build** – icc/gcc wrappers
  - **proj** – application sources, library sources, scripts, documentation (including man pages)
  - **projconf**
    - **su** – Stanford-specific configuration
    - **ex** – external configuration
  - **scripts, man, libs, bin** – links to base and proj scripts, man pages, libraries, executables
  - **<platform>** – built platform-specific binaries
Version Management and Configuration Control

- Checking out systems
  - Base system: “cvs checkout DRMS”
  - Full JSOC system: “cvs checkout JSOC”
  - “cvs export DRMS” (tarball)
  - configure

- Status
  - Repository structure final/stable
  - Source for JSOC’s active SUMS resides in “old” repository, “new” repository not tested
  - New repository SUMS needs minor ‘make’ and source changes prior to external distribution, plus testing