

Software Development and Maintenance

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Development Environment

- Tools
 - Compilers, debuggers
 - Performance, memory analysis (Purify, Quantify)
 - CVS (version control system)
 - Gnats (bug tracking system)
 - Internal tools
 - Regression tests
 - Build tools

Windows Development Environment

- Windows development environment
 - Most developers now use both platforms
 - Cheaper, faster
 - Reflects user platforms
 - Standardized setup
 - Custom tools
 - Move code between platforms
 - Extensive internal documents

Development Process

■ Development Steps

- Design
 - Analysis, requirements, and design documents
 - Design review meetings
- Write code
 - Conform to internal standards
- Peer code review
- Functional Testing
- Purify (memory analysis tool)

Software Maintenance

- Bug fixes
 - Gnats bug tracking system
- Third-party libraries
 - Upgrade and monitor releases
 - Qt migration