

Release Plan#

The following table lists the various milestones planned for the current release of the Core Development Tools:

Milestone	Planned date	Status
Project goes public	September 12, 2007	100%
Binutils 2.17 port completed	September 2007	100%
GCC 4.2.1 port completed	September 2007	100%
GDB 6.7 port completed	December 2007	100%
Release	Q108	80%

Features#

Binutils 2.17 port#

- Support added for ARM V6.
- Support added for ARM VFP floating-point instruction set.
- Support added for SH4a and variants.
- Support added for SSE3 instructions.

GCC 4.2.1 port#

- New C parser (available in gcc 4.1 and newer). Yacc-based C parser was replaced with a faster hand-written parser.
- New C++ parser (available in gcc 3.4 and newer). g++ is now much closer to full conformance to the ISO/ANSI C++ standard.
- New optimization framework based on SSA. New code transformations include dead store elimination, constant propagation, value range propagation, load and store motion, strength reduction and many more.
- Optimized ARM floating point emulation routines.
- Support for precompiled headers.
- Open MP support is now added to for the C, C++ front ends.
- Mudflap pointer checking. (required ldd support in development)

GDB 6.7 port#

- Pending breakpoint support added.
- Handling of C++ nested types, namespaces and mangled names have improved.
- Support added for C/C++ preprocessor macros.