

GCC

GCC (GNU Compiler Collection) is used in Symbian OS to compile the code for the target device. It is capable of generating ARM-based code in three different instruction sets, THUMB, ARMI and ARM4. S60 SDK does not support ARM4.

GCC is used in pre-Symbian OS 9, which means S60 1st and 2nd Edition. Starting from Symbian OS 9, GCCE or RVCT is used to compile for the target.

Symbian built a special version of GCC that is based on GCC 2.9 from year 1998. The compiler is distributed in every Symbian OS SDKs. It is normally located in `\epoc32\gcc` folder.

Since the GCC compiler used in pre-Symbian OS is quite old, the Department of Software Engineering, University of Szeged initiated a Symbian GCC Improvement Project. The goal is to produce more optimal code either by updating the current Symbian GCC version or upgrading to a new GCC version.

Internal links

- [GCCE](#)
- [Microsoft C++ compiler](#)
- [RVCT](#)
- [Nokia x86 compiler](#)

External links

- [Source code of Symbian GCC.](#)
- [Symbian GCC Improvement Project](#)