

Intelligent Sensors Webinar

ST's intelligent sensor can implement self-calibration & run sensor algorithms.

STMicroelectronics

LINUX

Install GCC from source



relentlessstorm

Feb 10, 2023 1 min

In this post, we will go through the steps to install GCC.

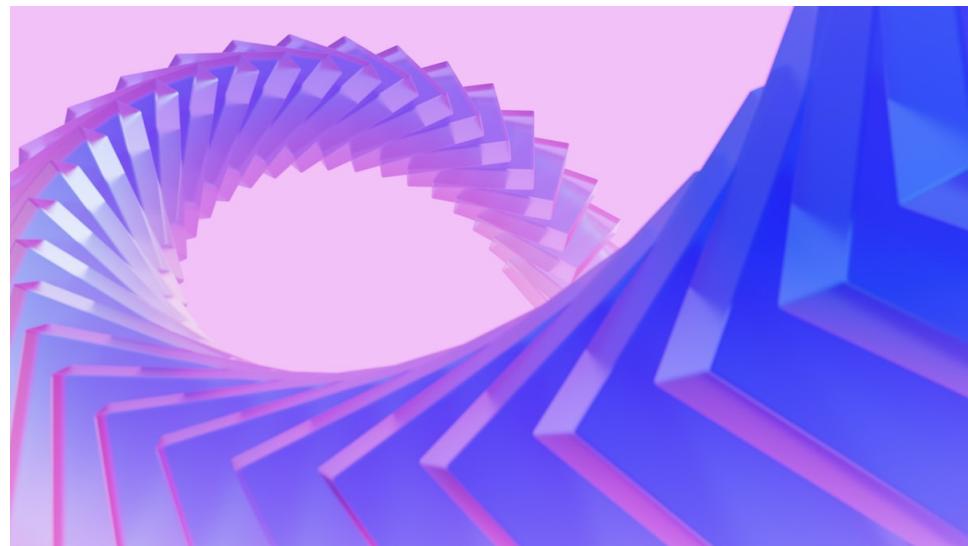


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In this post, we will go through the steps to install [GCC](#) from source on CentOS 7.

```
$ cat /etc/centos-release
CentOS Linux release 7.9.2009 (Core)
```

```
$ uname -r  
5.7.12-1.el7.elrepo.x86_64
```

Download GCC [source](#)

```
$ curl -LO https://gcc.gnu.org/pub/gcc/releases/gcc-12.2.0/gcc-12.2.0.tar.gz
```

Untar the source file:

```
$ tar zxf gcc-12.2.0.tar.gz
```

Download the dependent libraries

```
$ cd gcc-12.2.0/  
$ ./contrib/download_prerequisites  
2023-02-01 00:41:01 URL:http://gcc.gnu.org/pub/gcc/infrastructure/gmp-6.2.1.tar.bz2 [  
2023-02-01 00:41:02 URL:http://gcc.gnu.org/pub/gcc/infrastructure/mpfr-4.1.0.tar.bz2  
2023-02-01 00:41:03 URL:http://gcc.gnu.org/pub/gcc/infrastructure/mpc-1.2.1.tar.gz [8  
2023-02-01 00:41:04 URL:http://gcc.gnu.org/pub/gcc/infrastructure/isl-0.24.tar.bz2 [2  
gmp-6.2.1.tar.bz2: OK  
mpfr-4.1.0.tar.bz2: OK  
mpc-1.2.1.tar.gz: OK  
isl-0.24.tar.bz2: OK  
All prerequisites downloaded successfully.
```

Configure and compile the source

```
$ ./configure --enable-languages=c,c++ --disable-multilib  
$ make -j$(nproc)
```

Install GCC

```
$ make install
```

Verify GCC version

```
$ gcc --version  
gcc (GCC) 12.2.0
```

Write a "hello world" C program

```
$ vi hello.c  
#include <stdio.h>
```

```
void main()
{
    printf("Hello world!\n");
}
```

Compile and run the program

```
$ gcc -o hello hello.c
$ ./hello
Hello world!
```

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