

The GNU D Compiler

For GCC version 17.0.0 (pre-release)

(GCC)

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1.7 Developer Options

This section describes command-line options that are primarily of interest to developers or language tooling.

-fdump-d-original

Output the internal front-end AST after the **semantic3** stage. This option is only useful for debugging the GNU D compiler itself.

-v

Dump information about the compiler language processing stages as the source program is being compiled. This includes listing all modules that are processed through the **parse**, **semantic**, **semantic2**, and **semantic3** stages; all **import** modules and their file paths; and all **function** bodies that are being compiled.

On x86 targets, all intrinsics are available as functions in the `gcc.builtins` module, and have predictable equivalents.

```
version (DigitalMars)
{
    __simd(XMM.PSLLW, op1, op2);
    __simd_ib(XMM.PSLLW, op1, imm8);
}
version (GNU)
{
    __builtin_ia32_psllw(op1, op2);
    __builtin_ia32_psllwi(op1, imm8);
}
```

TypeInfo-based `va_arg`

The Digital Mars D compiler implements a version of `core.vararg.va_arg` that accepts a run-time `TypeInfo` argument for use when the static type is not known. This function is not implemented by GNU D. It is more portable to use variadic template functions instead.

