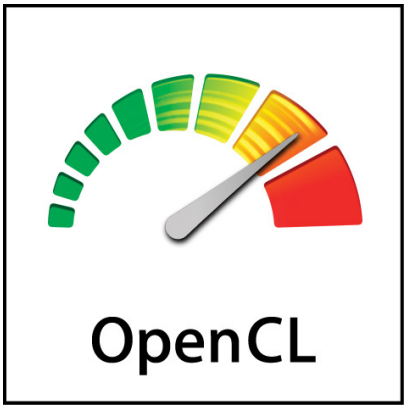

The OpenCL C Language Extensions Documentation

Khronos® OpenCL Working Group

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Chapter 1. Introduction

This document describes The OpenCL C language extensions that can be supported optionally by the compiler in addition to the functionality from the existing standard language versions. To detect whether extension is supported by the compiler special feature macros can be used `__opencl_c_<feature name>`. Each feature macro has a value corresponding to the publishing date. Some extensions are available in all versions and others only in the specific versions of OpenCL kernel language (see the full list of lanuage extension).

Chapter 2. Language Extension List

The section contains all optional language extensions listed along with their feature macros as well as OpenCL C version in which the extensions are available .

Extension Name	Feature macro	FM Value	OpenCL versions
Variadic Macros	__opencl_c_variadic_macro	TBD	OpenCL C v1.0 to v2.0

Chapter 3. Language Extensions

3.1. Variadic Macros

This extension allows the use of macros with a variable number of arguments in OpenCL C (as per C99 s6.10).

Feature macro: `__opencl_c_variadic_macro`

Macro value: `TBD`

Example:

```
#if defined(__opencl_c_variadic_macro)
#define DBGOUT(msg, ...)  printf ("%s(%u): " msg "\n", __FILE__, __LINE__,
__VA_ARGS__)
#endif
```

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