DPCT1049 analysis：

直方图

描述已自动生成

1. Total number of 1049 warning： 258
2. Total number of projects have this warning: 97
3. Total number of files have this warning: 101
4. Number of projects miss the dpct-version: 12
5. Number of files miss the dpct-version: 13
6. Available projects have this warning: 85
7. Available files have this warning: 88
8. Available data: 229

Warning message type：

|  |  |
| --- | --- |
| Message\_id | Message |
| 1 | The workgroup size passed to the SYCL kernel may  \* exceed the limit. To get the device limit, query  \* info::device::max\_work\_group\_size. Adjust the workgroup size if  \* needed. |
| 2 | The workgroup size passed to the SYCL kernel may exceed the limit. To get the device limit, query info::device::max\_work\_group\_size.  Adjust the workgroup size if needed. |
| 3 | The workgroup size passed to the SYCL kernel may exceed  the limit. To get the device limit, query  info::device::max\_work\_group\_size. Adjust the workgroup size if  needed. |
| 8 | The workgroup size passed to the SYCL kernel may exceed the limit. |
| 16 | The workgroup size passed to the SYCL kernel may exceed the \* limit. To get the device limit, query info::device::max\_work\_group\_size.  \* Adjust the workgroup size if needed. |
| 24 | The workgroup size passed to the SYCL kernel may exceed \* the limit. To get the device limit, query \* info::device::max\_work\_group\_size. Adjust the workgroup size if needed. |
| 49 | The workgroup size passed to the SYCL kernel may exceed the limit. To get the device limit, query info::device::max\_work\_group\_size. Adjust the workgroup size if needed. |
| 56 | The workgroup size passed to the SYCL  \* kernel may exceed the limit. To get the device limit, query  \* info::device::max\_work\_group\_size. Adjust the workgroup size if  \* needed. |
| 61 | The workgroup size passed to the SYCL  \* kernel may exceed the limit. To get the device limit, query  \* info::device::max\_work\_group\_size. Adjust the workgroup size  \* if needed. |
| 62 | The workgroup size passed to the SYCL kernel may exceed the limit. To get the device limit, query info::device::max\_work\_group\_size. Adjust the workgroup size if needed. |

------------------------------------------------------TYPE1--------------------------------------------------------------

DPCT code:

**X.submit([&] (sycl::handler &cgh) {**

xxxx;

**cgh.parallel\_for(sycl::nd\_range<3>(**

a\*b**,** b

**),**

**[=] (sycl::nd\_item<3> item\_ct1) {**

Y **(**d1, …, dn**);**

**});**

**});**

Manual code:

**X.submit([&] (sycl::handler &cgh) {**

xxxx;

**auto** i **=** a\*b;

(**auto** j **=** b;)

**cgh.parallel\_for( sycl::nd\_range<3>(**

sycl::range<3>( i.get(2), i.get(1), i.get(0))**,**

sycl::range<3>(b/j.get(2), b/j.get(1), b/j.get(0))

**),**

**[=] (sycl::nd\_item<3> item\_ct1) {**

Y**(**d1, …, dn**);**

**});**

**});**

EXAMPLES:

Example1:

文本

描述已自动生成文本

描述已自动生成

Example2:

图片包含 日程表

描述已自动生成图片包含 图形用户界面

描述已自动生成

------------------------------------------------------TYPE2--------------------------------------------------------------

DPCT code:

**X.submit([&] (sycl::handler &cgh) {**

xxxx;

**cgh.parallel\_for(sycl::nd\_range<3>(**

a\*b**,** b

**),**

**[=] (sycl::nd\_item<3> item\_ct1) {**

C **(**d1, …, dn**);**

**});**

**});**

Manual code:

**X.submit([&] (sycl::handler &cgh) {**

xxxx;

**cgh.parallel\_for(sycl::nd\_range<3>(**

a\*b**,** b

**),**

**[=] (sycl::nd\_item<3> item\_ct1) {**

C **(**d1, …, dn**);**

**});**

**});**

EXAMPLES:

图形用户界面, 文本, 应用程序

描述已自动生成

1. Number of Type1 (not same = False): 177
2. Number of Type2 (same = True): 52
3. SUM 229

图表, 条形图

描述已自动生成

\*\*\*\*\*\*\*reminder\*\*\*\*\*\*\*\*

There are 3 special cases that count to False (not same):

文本

描述已自动生成

They replace perm\_pos++ -> perm\_pros then perm\_pos++

And they replace error-> throw