



Best practices

Develop a GPU application in Platform Symphony

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Description

Prior to Platform Symphony 6.1.1, GPU applications were supported only on Linux platforms. Now they are supported on both Windows and Linux platforms.

- For Windows, the supported platforms are Windows 2008 64bit R2 and Windows 2012 64 bit. Only Nvidia Tesla hardware running in TCC mode is supported.
- For Linux, the supported platforms are Red Hat Enterprise Linux AS 4, 5, 6 (64 bit) and SuSE Linux Enterprise Server 9, 10, 11 (64 bit).

Tips for Development

1. How to develop a GPU client

Developing a Symphony GPU application client is the same as developing a standard Symphony application client; for more information, refer to the documentation for developing standard Symphony application clients.

2. How to develop a GPU service

You can create your GPU service by extending the `GpuServiceContainer` class and implementing the required handler methods. The main difference between a standard Symphony service and a Symphony GPU service is that the only required method is `onGpuInvoke()`, not `onInvoke()`, which is not part of the GPU service container API. All other methods such as `onCreateService()`, `onSessionEnter()`, etc remain unchanged.

In the method `onGpuInvoke()`, you can get the GPU device ID by the method `getAssignedGpuDeviceId()`, which will return the ID of the GPU device scheduled by Symphony to the service. You can then call the standard GPU API to use this GPU device.

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