Debugger   
Code and Data

Debugger Process

OMPD DLL

Callback interface exported by debugger to OMPD DLL

* Read/write memory from target
* Look up symbols

Restricted direct access to OMPD DLL

* Read subset of exported variables during initialization
* Get event notification using breakpoints

API exported by OMPD DLL

* Get handle for top parallel / task region
* Get runtime state

Thread Stacks

Code

Data

Main application

Code

Data

Shared libraries …

OpenMP Runtime Library

|  |  |
| --- | --- |
| ompd\_dll\_locations\_valid | Code |
| ompd\_bp\_parallel\_begin … |

|  |  |
| --- | --- |
| ompd\_dll\_locations … | Data |
|  |

Target Process / Core

OMPD DLL paired to OpenMP Runtime

OpenMP Program