# OMPT working group

### Agenda

- Upstreaming OMPT
- What do we want in OpenMP 5.1?
  - Interoperability for OMPT device tracing between OpenMP and CUDA code

#### Interoperability

- Adding a new target interface complementing the native and tracing interface:
- Basically a marker interface to mark regions of target execution

```
Target-begin(tid)

omp-cupti-event-x(tid,op1)

omp-cupti-event-y(tid,op2)

omp-cupti-event-z(tid,op3)

Target-end(tid)

Cupti-event-a(?)

Target-begin(tid)

cupti-event-x(tid,op1)

cupti-event-y(tid,op2)

cupti-event-z(tid,op3)

Target-end(tid)
```

## Async Offloading

Omp target depend(in:a)

```
Task create + dependences

Task switch

Target-begin(tid)

cupti-event-x(tid)

cupti-event-y(tid)

cupti-event-z(tid)

Target-end(tid)

Task switch
```

#### Debugging

- John D submitted several tickets to fix language
  - They passed first vote
- Is OMPD sufficient for other devices like AMD devices?
  - Specifically the address space model
  - Example code JMC received had no relocation in the binary
  - Relocation information is necessary to correlate code in execution to source
- Someone (JMC) will ping AMD to attend the OpenMP LC F2F if they want to have something fixed in OMPD for 5.1