

Read BPM ATCA Information

Instructions to read hardware information for ATCA BPMs in LCLS or FACET production.

You can read LCLS or FACET information from either system, for example from either lcls-srv01 or facet-srv01.

- Read AMC information, given BPM name

```
$ source $PACKAGE_TOP/IPMC/env.sh
```

```
$ bpm_read_atca_info.bash <bpm> amc_data
```

Example:

```
$ source $PACKAGE_TOP/IPMC/env.sh
```

```
$ bpm_read_atca_info.bash BPMS:UNDH:5190 amc_data
```

```
---Run amcc_dump_bsi for BPMS:UNDH:5190 with option amc_data
```

```
---Crate shm-undh-sp03-1 slot 4 bay 0
```

```
amcc_dump_bsi --amc_data shm-undh-sp03-1/4/0
```

```
AMC 0 info: Aux: 01 Ser: 1a00000134cac70 Type: 00 Ver: C03 BOM: 00 Tag: 159
```

- Read all ATCA information, given BPM name:

```
$ source $PACKAGE_TOP/IPMC/env.sh
```

```
$ bpm_read_atca_info.bash <bpm>
```

Example:

```
$ source $PACKAGE_TOP/IPMC/env.sh
```

```
$ bpm_read_atca_info.bash BPMS:UNDH:5190
```

```
---Run amcc_dump_bsi for BPMS:UNDH:5190 with option all
```

```
---Crate shm-undh-sp03-1 slot 4 bay 0
```

```
amcc_dump_bsi --all shm-undh-sp03-1/4
```

```
=====
| BSI: shm-undh-sp03-1/4/CEN (shm-undh-sp03-1/4/4) |
```

```
BSI Ld State: 3 (READY)
```

```
BSI Ld Status: 0x00000000 (SUCCESS)
```

```
BSI Version: 0x0103 = 1.3
```

```
MAC 0: 08:00:56:00:49:5e
```

```
MAC 1: 08:00:56:00:49:5f
```

```
MAC 2: 08:00:56:00:49:60
```

```
MAC 3: 08:00:56:00:49:61
```

```
DDR status: 0x0003: MemErr: F, MemRdy: T, Eth Link: Up
```

```
Enet uptime: 13221615 seconds
```

```
FPGA uptime: 13221663 seconds
```

```
FPGA version: 0x04030001
```

```
BL start adx: 0x04000000
```

```
Crate ID: 0x0001
```

```
ATCA slot: 4
```

```
AMC 0 info: Aux: 01 Ser: 1a00000134cac70 Type: 00 Ver: C03 BOM: 00 Tag: 159
```

```
AMC 2 info: Aux: 01 Ser: 7c00000134e07070 Type: 00 Ver: C03 BOM: 00 Tag: 160
```

```
GIT hash: 7b3785622e463916a04e03347a2f77f4cfa682d1
```

```
FW bld string: 'AmcCarrierBpmCavityDDV2: Vivado v2019.1, rdsrv305 (Ubuntu 20.04.2 LTS), Built Thu 18 Mar 2021 05:42:59
```

```
PM PDT by leosap'
```

- Get associated device names, given BPM name

```
$ caget<bpm>:{CPU,CRAT,SLOT,BAY}
```

Example:

```
$ caget BPMS:UNDH:5190:{CPU,CRAT,SLOT,BAY}
```

```
BPMS:UNDH:5190:CPU CPU:UNDH:SP03
```

```
BPMS:UNDH:5190:CRAT CRAT:UNDH:SP03:1
```

```
BPMS:UNDH:5190:SLOT 4
```

```
BPMS:UNDH:5190:BAY 0
```

