

Products:ACQ400:FakeModule

From D-TACQ-wiki

- Fake a module that isn't there
 - To force an FPGA to load for additional testing
 - To fake additional load
 - To add real PMODS
- **WARNING: DO NOT FAKE ACQ480/ACQ482**, doesn't work
- Method
 - create /mnt/local/fmc-scan.conf
 - a one-line file defining the active sites (only needed if non-default)
 - create /mnt/local/custom_pmod.conf
 - a one-line file defining which sites are "CUSTOM PMODS"
 - create a fake fru file
 - copy some existing fru file and give it a specific name

Best shown by way of examples:

- Example 1 add a "second ACQ435 in site 2"
 - Enable Custom PMOD

```
mv /mnt/packages.opt/04-custom_pmod* /mnt/packages
```

- **Config Files**
 - example: we have 2 sites, second one is a "CUSTOM_PMOD"
 - NB: this is an EXAMPLE, it's showing you a pre-existing unit; you're probably going to use vi to create these files..

```
acq1001_064> cat /mnt/local/fmc-scan.conf
FMC_SCAN_SITES="1 2"

acq1001_064> cat /mnt/local/custom_pmod.conf
CUSTOM_PMODS="2"
```

fmc-scan.conf overrides the auto detected sites. You must include both real and fake sites in this file

- **Fake FRU** : this is a copy of an existing fru, NB the very explicit name
 - CUSTOM_PMOD_2 derives from CUSTOM_PMODS="2"

```
acq1001_064> ls /mnt/local/*.fru
/mnt/local/CUSTOM_PMOD_2_E43510006.fru
```

- **Result (two modules, same serial)**

CARRIER	MANUFACTURER	MODEL	PART	SERIAL
SITE				

```
0      D-TACQ Solutions      acq1002      dtb.d/acq1002      CE4010064
-----
build detail: root@rpi-002 R1004 Tue Feb 24 15:56:32 UTC 2015
eth0 macaddr: 00:21:54:12:00:40      eth0 ipaddr: 192.168.1.6
eth1 macaddr:      eth1 ipaddr:
-----
MODULES
SITE      MANUFACTURER      MODEL      PART      SERIAL
1      D-TACQ Solutions      ACQ435ELF      ACQ435ELF-32FF N=32 M=02      E43510006
2      D-TACQ Solutions      ACQ435ELF      ACQ435ELF-32FF N=32 M=02      E43510006
```

- Example 2 add one "ACQ435 in site 1"
 - Enable Custom PMOD

```
mv /mnt/packages.opt/04-custom_pmod* /mnt/packages
```

- ■ Config Files : standard ACQ1001 fmc-scan is probably OK..

```
acq1001_064> cat /mnt/local/fmc-scan.conf
FMC_SCAN_SITES="1"

acq1001_064> cat /mnt/local/custom_pmod.conf
CUSTOM_PMODS="1"
```

- ■ Fake FRU : this is a copy of an existing fru, NB the very explicit name
 - CUSTOM_PMOD_1 derives from CUSTOM_PMODS="1"

```
acq1001_064> ls /mnt/local/*.fru
/mnt/local/CUSTOM_PMOD_1_E43510006.fru
```

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