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## The “2boards” Server/Loader examples.

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The “2boards” examples explain how the Server/Loader could be used to load and serve a network of DSP processors located on 2 HEART boards connected via Inter-Board Connectors.

There are 3 examples:

1. The “2locals” example. Here 2 HEART boards (default: HEPC9’s) are used. There’s one HERON module on the first board, and one HERON module on the second board. The examples show how to connect both boards with BDCONN and EM2 statements, and how to use HEART to create a cross-board fifo connection. The programs loaded onto the HERON modules will exchange a short message, and the receiving HERON module will verify the contents are as expected. The example is similar to the 2heron\_sl example, except that in this example the 2 nodes are on different boards.
2. The “remote” example. This example is identical to “2locals”, except that in this example one board is defined “remote”. This means that the Server/Loader must do all accesses via another board. This other board must be connected to the remote board via Inter-Board Connectors. HSB and reset will be propagated, and HEART connections are created to “reach” the node(s) on the remote board. For a user using “remote” should be completely transparent.
3. The “remserve” example. This example is based on the “remote” example. It shows how both HERON nodes can use “stdio” calls even if one HERON module is located on a “remote” board. For the example to work, you need at least 2 links between two carrier boards (e.g. 2 EM2’s with 2 cables). The network file also shows the use of the NOHSB and NORESET keywords to select which of the two cables must be used for HSB and reset propagation.

All 3 examples use the HERON-API. The use of HERON-API means that the example is easily changed to use any HERON C6000 module. HERON-API uses DSP/BIOS internally so must be built using Code Composer Studio.

History

Example revision 1.0 made for Server/Loader V4.08