



16th April 2002

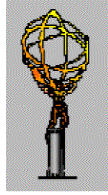
Processor Crate VME Address Allocation



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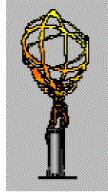
Address Spaces



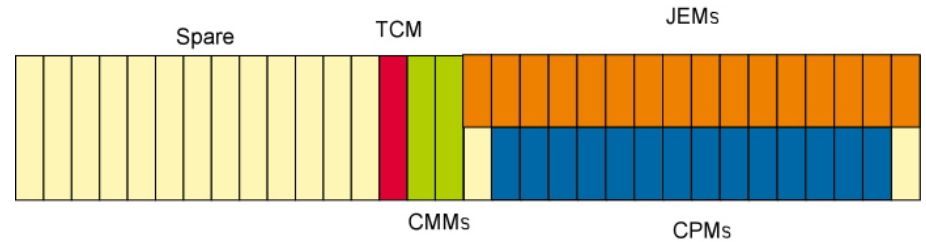
- **24-bit VME– gives us 16 Mbytes of address space per crate.**
- **16 identical JEMs can't be bigger than 0.5 Mbyte each**
 - Unless their addressing starts on strange boundaries.
- **It is easy to give the CPMs 0.5 Mbyte each too.**
- **The remaining 8 Mbytes is available for other modules.**
- **Allocate 0.5 Mbytes each for CMMs and TCM.**
- **Keep low addresses in the crate empty – this area is potentially more vulnerable to mistaken VME cycles if we make software mistakes.**
- **Documented in VME– Spec 0.9, about to be 1.0 if no challenges.**



Address Allocation in VME-- Specification



Crate Slot Number	Module		VME-- address
1	Single-Board Computer		
2	<i>Spare</i>		
3	CMM 0		0x00700000-77FFFE
4	JEM 0	<i>Unused</i>	0x00800000-87FFFE
5	JEM 1	CPM 1	0x00880000-8FFFFE
6	JEM 2	CPM 2	0x00900000-97FFFE
7	JEM 3	CPM 3	0x00980000-9FFFFE
8	JEM 4	CPM 4	0x00A00000-A7FFFE
9	JEM 5	CPM 5	0x00A80000-AFFFFE
10	JEM 6	CPM 6	0x00B00000-B7FFFE
11	JEM 7	CPM 7	0x00B80000-BFFFFE
12	JEM 8	CPM 8	0x00C00000-C7FFFE
13	JEM 9	CPM 9	0x00C80000-CFFFFE
14	JEM 10	CPM 10	0x00D00000-D7FFFE
15	JEM 11	CPM 11	0x00D80000-DFFFFE
16	JEM 12	CPM 12	0x00E00000-E7FFFE
17	JEM 13	CPM 13	0x00E80000-EFFFFE
18	JEM 14	CPM 14	0x00F00000-F7FFFE
19	JEM 15	<i>Unused</i>	0x00F80000-FFFFFE
20	CMM 1		0x00780000-7FFFFE
21	TCM		0x00680000-6FFFFE





End



The End