

Linac Front-end Nodes

Reference list

Wed, Nov 7, 2001

With the completion of installation of the new PowerPC-based Linac front-ends, it is useful to indicate the list of front-ends in one place. Each front-end is referenced by a node number and registered with the Domain Name Server as `node06xx.fnal.gov`. The following list shows the front-end node numbers and the function of each.

<i>Node</i>	<i>SRMs</i>	<i>Function</i>
0600	0	Data server node. Source node for Acnet requests
0601	0	Linac timing. Affects Linac badly when reset!
0610	5	Both preaccelerators plus ground station.
0611	3	LE Tank 1 plus Buncher in transport line from preacc.
0612	1	LE Tank 2
0613	1	LE Tank 3
0614	2	LE Tank 4
0615	1	LE Tank 5
061C	2	Neutron therapy
0620	6	HE transition region--two intermediate klystrons
0621	4	HE klystron Tank 1
0622	3	HE klystron Tank 2
0623	3	HE klystron Tank 3
0624	3	HE klystron Tank 4
0625	3	HE klystron Tank 5
0626	4	HE klystron Tank 6
0627	5	HE klystron Tank 7, vacuum
062D	3	HE klystron debuncher
062C	2	Diagnostics room
062E	6	All HE quad ps, located just south of diagnostics room
062F	4	Beam toroids, BLMs, 10 Quick digitizer boards, diag room
0602	0	Preacc area PLC via serial, 750 Kev chopper timing (IRM)
0616	2	Linac scrolling alarm screen (IRM)
061E	2	400 Mev area
061F	0	HE Spectrometer magnet via serial (IRM)
0617	2	Offline test station for LE RF systems
0619	1	Offline software test node

The bulk of the Linac data comes by way of the arcnet-connected SRMs. In addition, each klystron node connects to one or two VXI crates via Vertical Interconnect.

All together, there are 22 PowerPC-based nodes and 3 MC68040-based IRMs that comprise controls front-end support of the Linac. There are also two test stations.