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Physical Location

NP04 at EHN1

-SP

TDR [↗](#)

Readout

Computers running FELIX OnHost BoardReader processes read out the WIBs and transmit data to a set of computers running EventBuilder processes that assemble fragments and write data to storage.

For ProtoDUNE-SP, data from X WIBs (X FEBs) (?) are read out over X 9.6- Gbps links into X FELIX cards.

FELIX servers are np04-srv-25 to 30

Event builder servers are np04-srv-01 to 04, quad servers in shared chassis.

Storage JBODs are SAS attached to EB servers with software RAID (mdraid).

All servers have IPMI control from one of np04-srv-07, np04-srv-08.

"admin" server is np04-srv-014

Servers

Computer Assignments

- ProtoDUNESP-II Rack layout:

	Rack 4	Rack 5	Rack 6	R
U42		d887-rv4-rbr7y-1	d887-rv4-ip12-sbr4l-2	
U41			d887-rv4-ip12-sbr4l-1	
U40		d887-rv4-ip13-sbr4l-1		
U39	storage		APA fibers PP	
U38		main NW patch	CTB	
U37		IPMI		
U36		np04-srv-029		
U35				
U34			np04-srv-028	
U33				
U32			np04-srv-026	AIDA timing
U31				
U30			np04-srv-025	fanout-0
U29				
U28			np04-srv-021..24	fanout-1
U27				
U26			np04-srv-007	fanout-2
U25				
U24		np04-srv-008	np04-onl-001	
U23				
U22		np04-srv-009		
U21				
U20		np04-srv-010	np04-srv-030	
U19				
U18	np04-srv-001..004	np04-srv-011		
U17				
U16	storage	np04-srv-012	timing passive fanout	
U15			felix PP APAs	
U14		np04-srv-013	felix PP coldbox	
U13				
U12				
U11				
U10			np04-srv-015	
U9				
U8			np04-srv-016	
U7				
U6		np04-srv-019		
U5				
U4		np04-srv-018		
U3				
U2		np04-srv-017		
U1				

Servers are installed with CentOS 7 via CERN Kickstart and receive initial configuration from CERN Puppet/locmap. Subsequent configuration is done by Ansible.

np04online git repository (CERN gitlab) [↗](#)

Network

The 4 "service computers" np04-srv-007...010 are only on the 1G network. We have to see how to handle that (RJ45->SFP+). It would actually be better for them to have 10G connection to all clients...

-- BonnieLetitiaKing - 2020-11-11

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