

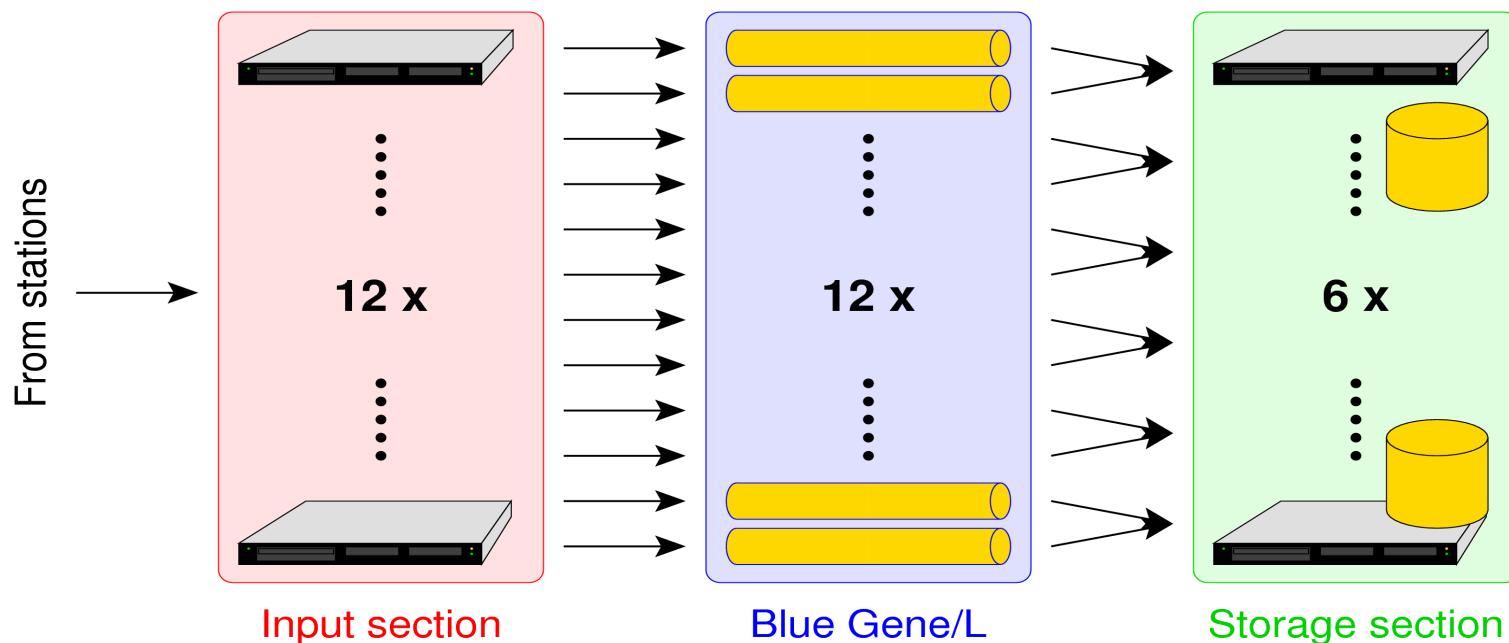
Reliability

- ❑ Many hardware failures
 - ❑ Storage section
 - ❑ replaced all disk controllers
 - ❑ some disks broken
 - ❑ Input section
 - ❑ 3rd node broken ...
- ❑ Software not fault tolerant
 - ❑ Future: suspend/restart observation

SAS/MAC integration

- ❑ SAS/MAC: automatic schedule/start/stop of observations
- ❑ ongoing development
 - ❑ InputSection, DelayCompensation work
 - ❑ Storage should work
 - ❑ BG/L processing to be done

BG/L I/O bandwidth



- each pipeline processes 2–4 subbands
- #subbands limited by BG/L I/O bandwidth
 - increase #pipelines
 - increase bandwidth per pipeline (*next slide*)

the ZOID communication protocol

- ❑ replacement for IBM software
 - ❑ faster
 - ❑ more flexible
 - ❑ run application on I/O node
- ❑ developed with ANL
- ❑ status:
 - ❑ stable, but needs work
 - ❑ 12x3 subbands @160 MHz ok
 - ❑ 8x4 subbands ok
 - ❑ 12x4 subbands not (?)
- ❑ development: use 2nd CPU

