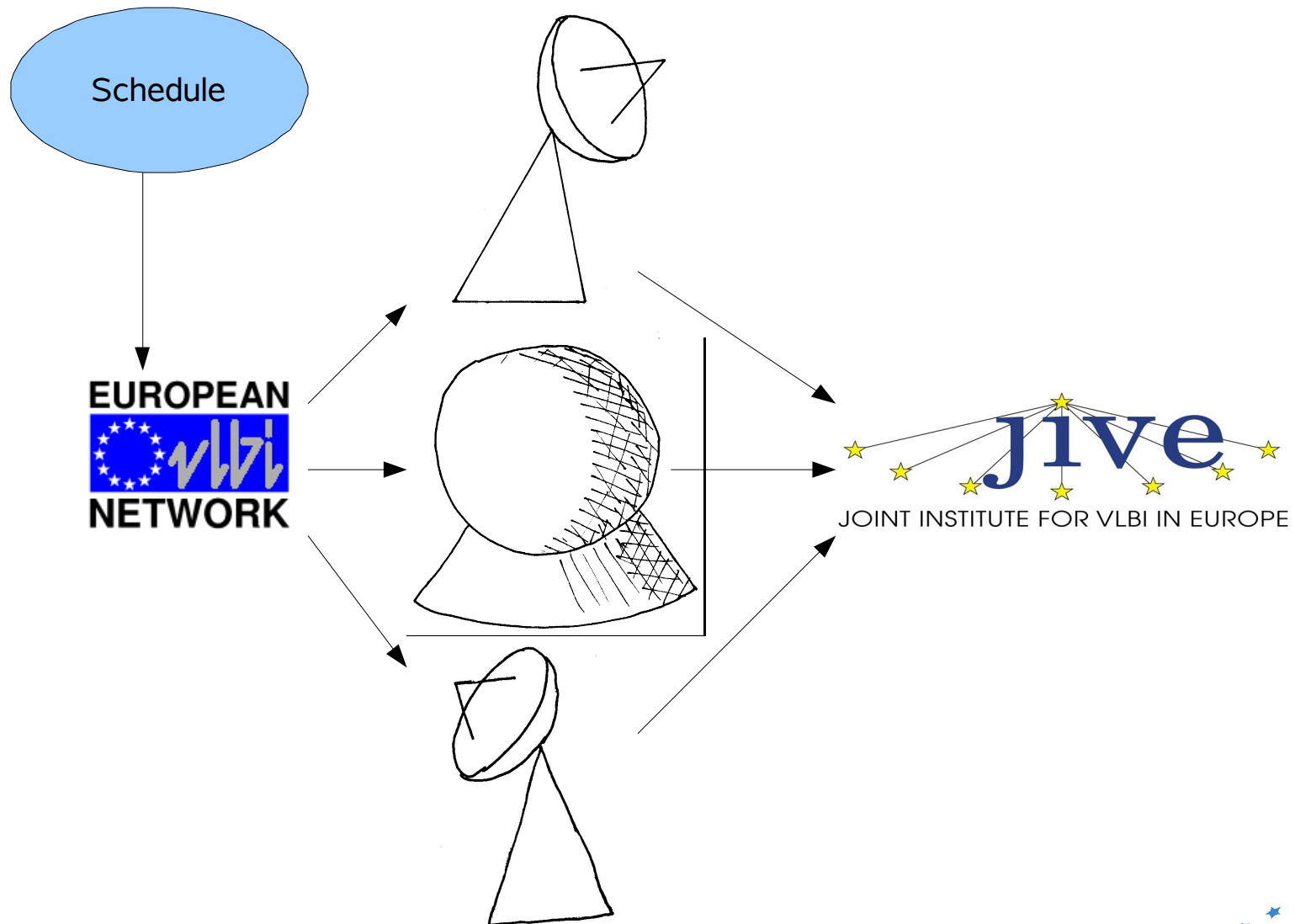


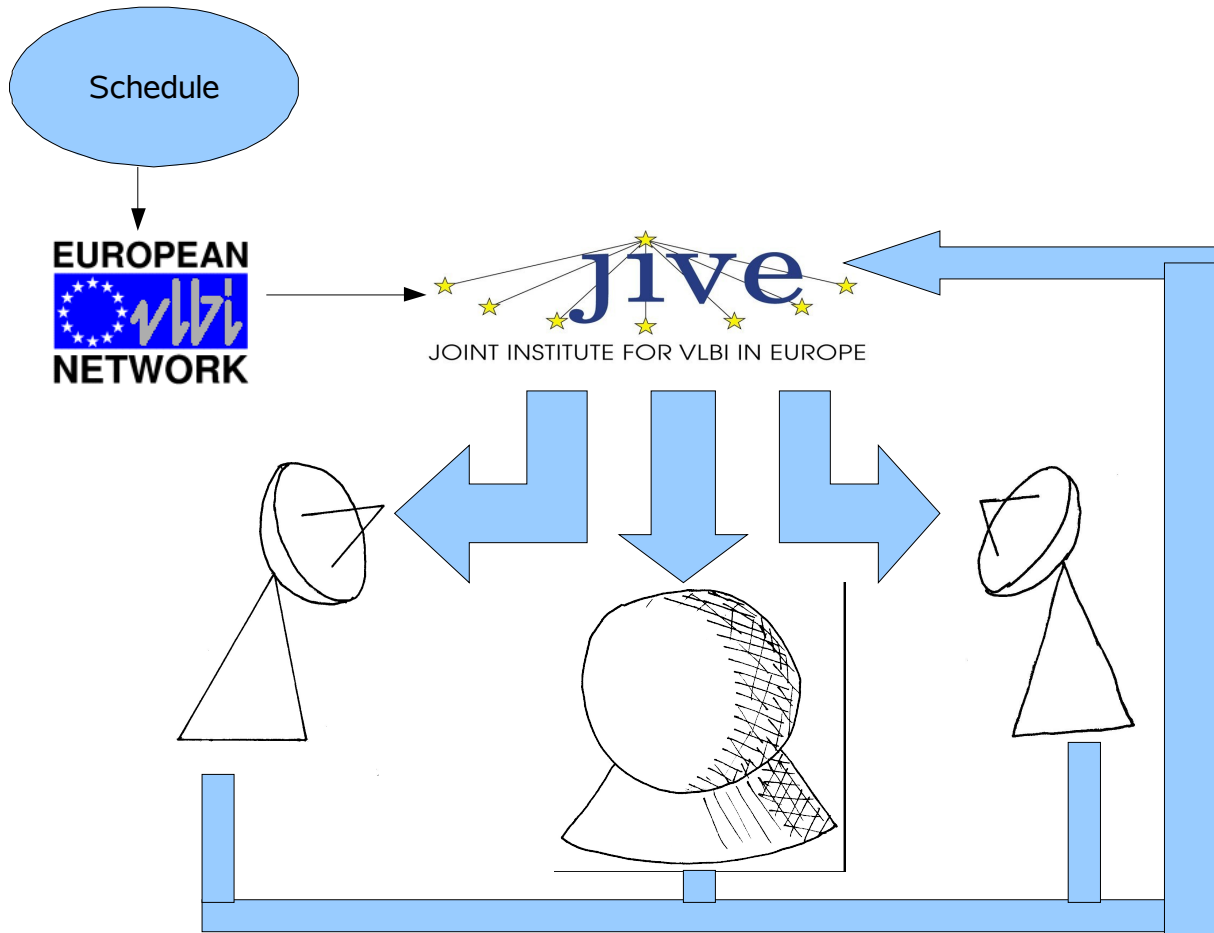
Dynamic scheduling of the e-EVN: a progress report



“Batch” mode scheduling



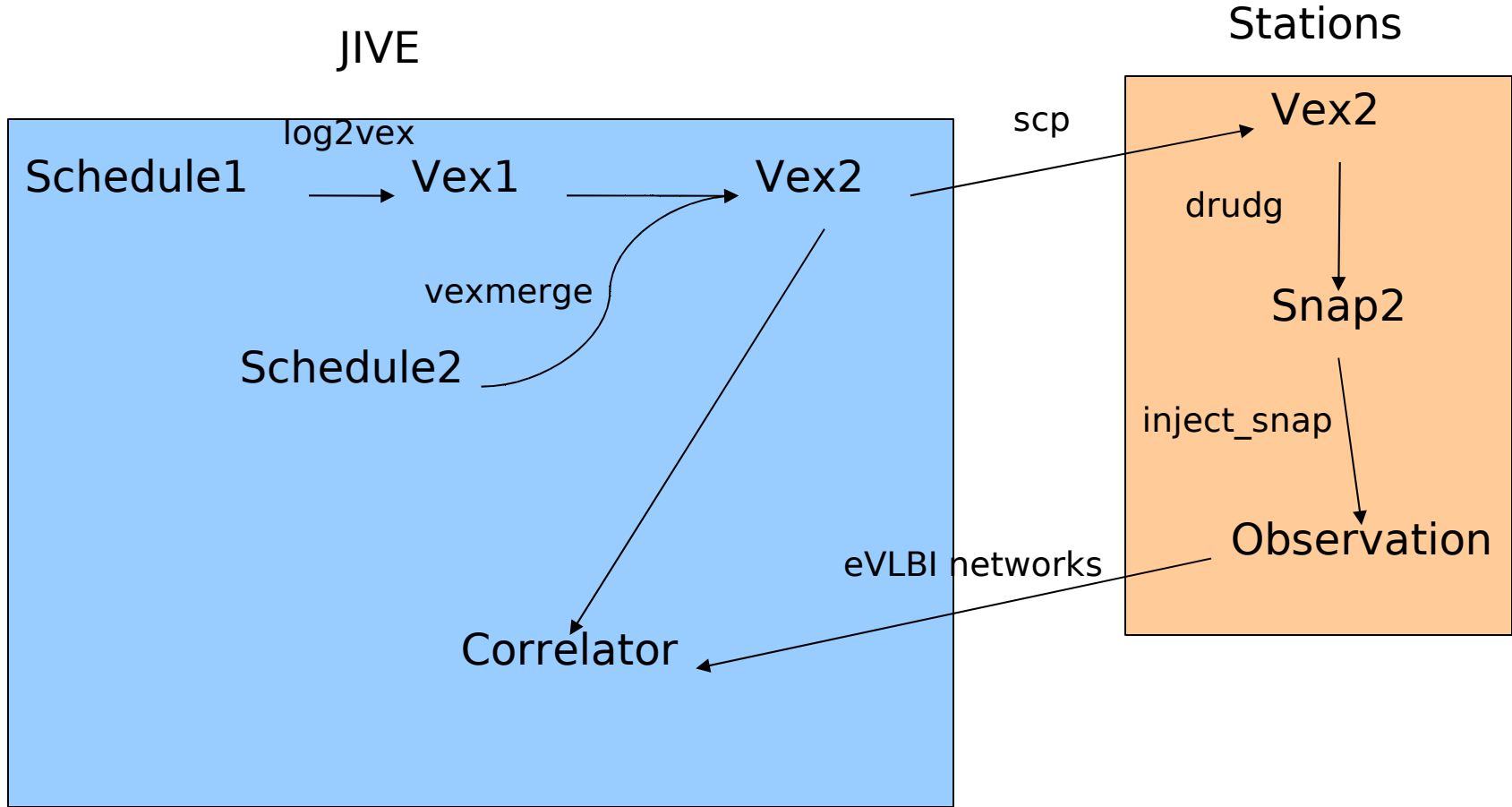
Dynamic scheduling



Requirements

- Propagate new schedule to stations
- Process and inject new schedule to Field System
- *(New!)* Historically-accurate vex file for correlator

Dynamic scheduling dataflow



log2vex

- Turns schedule (.skd) files into vex (.vix) files
- Adds \$CLOCK, \$TAPELOG_OBS, \$EOP blocks
- \$CLOCK block based on station GPS data for batch VLBI
- Clock-searching is used instead for eVLBI
- Runs at JIVE; written in Perl

vexmerge

- Merges original vex file and new schedule
- Produces updated historically-accurate vex file
- Runs at JIVE; written in Python

Field System tools

- drudge: vex file → snap file
- inject_snap: stops/starts use of snap file
- FS commands
 - run from JIVE script
 - use ssh in single-command mode
 - no login session on FS computers

Case study

- Thursday, 28 August 2008 eVLBI session
- Sources: DA193, 4C39.25
- Stations: Torun, Westerbork (single-dish)
- Fringes obtained!

Conclusions and future work

- All components now work
- Station participation actively sought!
- A similar process could fetch GPS data for clocks
- Work is also progressing on real-time monitoring
- Calibration using station temperatures is also possible

Dynamic scheduling tools

