1. The "main" ELAN file sets up receiver and data processing

myelan.elan

1.1 Define the setup command (MyMain)

BLOCK MyMain { {Height 290} } {

set ... ;#helper variables

SYNC -5.0 load ...;#devices & the scan ELAN file

SYNC 3.0 start ...;#devices

SYNC 2.0 callblock MyScan \$Height ;#call antenna loop

1.2 Give the setup command (MyMain)

eval callblock MyMain [argv]

2. The "scan" ELAN file defines an infinite antenna motion loop



3. The experiment is executed by a command like

U: runexperiment myelan.elan "Aug 16 08:00" 250.0

ELAN program command at known time using SYNC and AT



Note! C-TIME is initialized to exp start time (E-TIME) by the runexp command.

Time-syncronisation in an ELAN program

| | UT | CTIME | BTIME | ETIME |
|----------------|-----------|-----------|-----------|-----------|
| | 7:57:36.3 | undefined | undefined | undefined |
| runexp MM 8:00 | | | | |
| | 7:57:36.4 | 8:00:00.0 | 8:00:00.0 | 8:00:00.0 |
| BLOCK M { | | | | |
| set | | | 8:00:00.0 | |
| | 7:57:36.5 | 8:00:00.0 | | |
| SYNC -5.0 | | 7.50.55 0 | | |
| land | 1:59:55.0 | 1.33.33.0 | | |
| | | 7.50.55 0 | | |
| SYNC 3.0 | 1:59:56.2 | 1.09.00.0 | 1 | |
| | 7:59:58.0 | 7:59:58.0 | | |
| start | | | | |
| | 7:59:58.3 | 7:59:58.0 | | |
| SYNC 2.0 | | 0.00.00.0 |] | |
| asilible als P | 8:00:00.0 | 8:00:00.0 | | |
| | | | | |
| } | 8:00:00.1 | 8:00:00.0 | | |
| BLOCK B { | | | | |
| DO -1 | | | 8:00:00.0 | |
| | | | | |
| SYNC 60.0 | 8:00:00.2 | 8:00:00.0 | 1 | |
| | 8:01:00.0 | 8:01:00.0 | 1 | |
| operations | | | | |

ELAN command reference

www.sgo.fi/~jussi/eiscat/