Using the GBT in a VLBI experiment

VLBA compatible back end, and Mark 6 recorder

HSA (high sensitivity array)
 can include GBT, Effelsberg, Arecibo, VLA

GMVA (global 3mm VLBI array)
 can include IRAM Pico Valeta, IRAM Plateau
 de Bure, Yebes, Metsahovi, Effelsberg, GBT,
  also ALMA

GBT can be included in EVN experiments.

Refer to http://www.gb.nrao.edu/~gbvlbi/vlbinfo.html
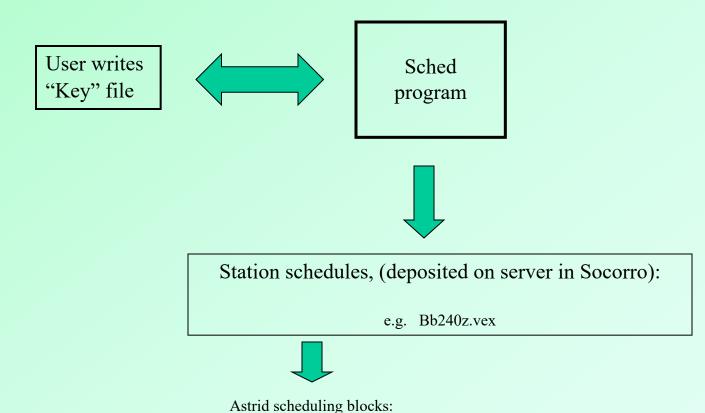
NRAO
VLBA
array

HSA - high sensitivity array

Usefulness of having a large antenna such
as the GBT in the VLBA array.

$$\text{S/N} \propto \sqrt{A_1 A_2}$$

Creating a schedule

User writes "Key" file ⟷ Sched program

⬇

Station schedules, (deposited on server in Socorro):

e.g. Bb240z.vex

⬇

Astrid scheduling blocks:
BB240Z.GB.py
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