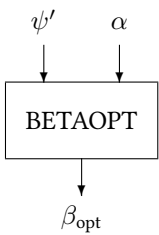


Block BETAOPT

The BETAOPT block calculates the optimum tilt angle for a one-axis tracked receiver with horizontal axis.



Name	BETAOPT
Function	em0032
Inputs	2
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

- 1

Difference between surface azimuth and azimuth of the Sun / °
- 2

Solar elevation / °

Outputs

- 1

Optimum tilt angle / °

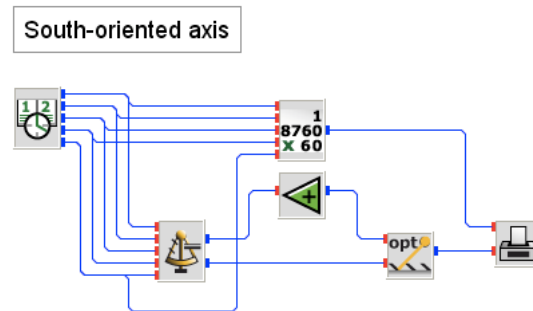
Parameters

None

Strings

None

betaopt.vseit



A **CLOCK** block drives this simulation between 05:00 o'clock in the morning until 09:00 p.m. in steps of five minutes on the first of July 2010. The **SUNAE** block is used to calculate the solar azimuth and elevation. An **OFFSET** block with parameter -180 is used to calculate the difference between surface azimuth and solar azimuth, as required by the **BETAOPT** block.

The Gregorian date of the **CLOCK** block is converted into the minute of the year by a **MOY** block, which is used as x -coordinate by the **PLOT** block.

