

README.txt

The format of the data files are as follows:

nnodes = number of nodes in the network
ngens = number of generators
nlines = number of lines (i.e. arcs) in the network
nloads = number of nodes with non-zero demand
T = number of time periods
thetamax = maximum phase angle
thetamin = minimum phase angle

section labeled 'lines' define the arcs in the network. nodes are 0-indexed.
i = node that arc is directed out of; j = node that arc is directed into
X = electrical susceptance; cap = line capacity

section labeled 'loads' defines the demand in each time period
The first value in each row is the node index. The remaining T values in the row
are the demands at that node in each time period.

section labeled 'gens' defines the generator characteristics.

n = node index
pmax = generator output capacity
pmin = lower bound on generator output when generator is committed
prod = production cost of generating a unit of power at generator
suc = start-up cost, i.e. cost of turning on generator
sdc = shut-down cost, i.e. cost of turning off generator
mru = maximum ramp-up rate in consecutive periods where generator is committed
mrd = maximum ramp-down rate in consecutive periods where generator is committed
sur = start-up rate, i.e. max output in period where turned on after being off
sdr = shut-down rate, i.e. max output in period before generator is uncommitted
mu = minimum up-time, i.e. number of consecutive periods generator must be committed
once turned on
md = minimum down-time, i.e. number of consecutive periods generator must remain
uncommitted once turned off