



Ngspice  
custom simulation

```
CUSTOM1
SpiceCode=
set filetype=ascii
let mc_runs = 5
let run = 0
```

```
define unif(nom, rvar) (nom + (nom*rvar) * sunif(0))
define aunif(nom, avar) (nom + avar * sunif(0))
define gauss(nom, rvar, sig) (nom + (nom*rvar)/sig * sgauss(0))
define agauss(nom, avar, sig) (nom + avar/sig * sgauss(0))
define limit(nom, avar) (nom + ((sgauss(0) >= 0) ? avar : -avar))
*
```

```
*
dowhile run < mc_runs $ loop starts here
*
```

```
alter c1 = unif(1e-09, 0.1)
alter l1 = unif(10e-06, 0.1)
alter c2 = unif(1e-09, 0.1)
alter l2 = unif(10e-06, 0.1)
alter l3 = unif(40e-06, 0.1)
alter c3 = limit(250e-12, 25e-12)
*
```

```
ac oct 100 250K 4Meg
```

```
set run = "$&run" $ create a variable from the vector
```

```
let K = db(v(out))
write MonteCarlo_ac.txt v(out) K
set appendwrite
let run = run + 1
end $ loop ends here
```

