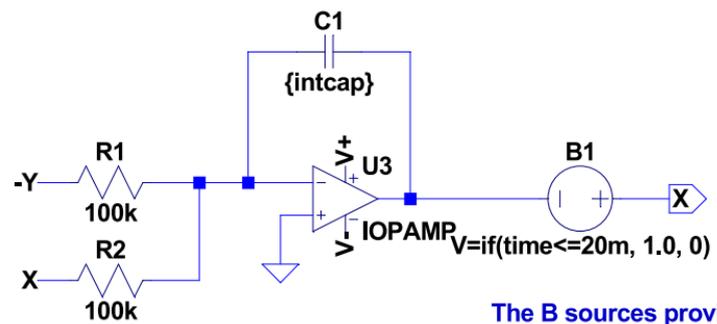
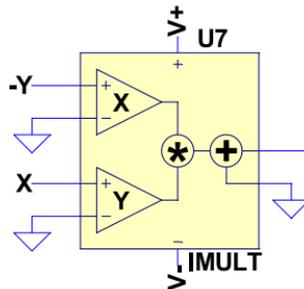
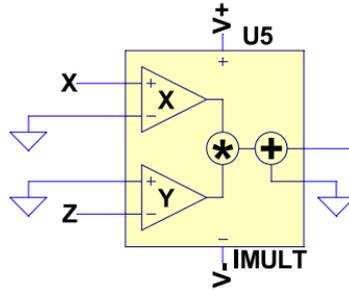
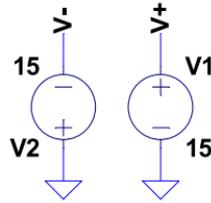


Lorenz

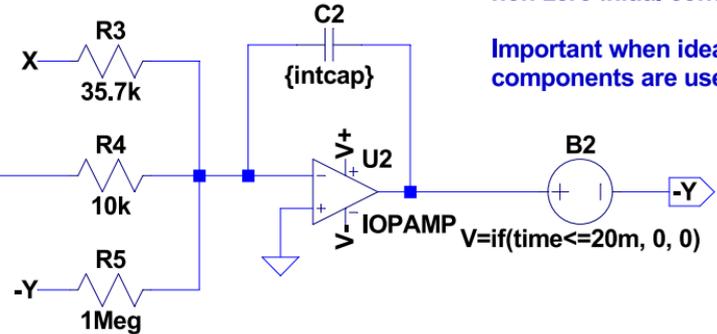
Several model files are included, and can be applied to both the multipliers and the operational amplifiers. Fastest simulation will be with IMULT & IOPAMP -- ideal devices clamped to the power rails. A more realistic simulation can be obtained with AD633JT (a more accurate behavioral model) & TL082. Note the more accurate multiplier models from ADI (AD633JNZ & AD633AN) can lead to tricky convergence. A good alternative amplifier is the LT1057.

```
.tran 0 15 2 1e-3 startup
.include AD633JT.sub
.include TL082.sub
.include AD633AN.sub
.include AD633JNZ.sub
.options plotwinsize=0
.include IOPAMP.sub
.include IMULT.sub
.param intcap=0.1u
```

intcap=0.01uF => Super Fast
intcap=0.10uF => Just Right
intcap=0.40uF => Super Slow



The B sources provide non-zero initial conditions.



Important when ideal components are used.

