Version 4

SHEET 1 880 680

WIRE 64 128 -48 128

WIRE 400 160 368 160

WIRE 544 160 480 160

WIRE -48 176 -48 128

WIRE 432 272 432 256

WIRE 272 288 144 288

WIRE 368 288 368 160

WIRE 368 288 352 288

WIRE 400 288 368 288

WIRE -48 304 -48 256

WIRE -48 304 -128 304

WIRE 544 304 544 160

WIRE 544 304 464 304

WIRE 608 304 544 304

WIRE 400 320 368 320

WIRE -128 352 -128 304

WIRE -48 352 -48 304

WIRE 432 368 432 336

WIRE 368 400 368 320

WIRE 144 416 144 288

WIRE -48 496 -48 432

WIRE 64 496 -48 496

FLAG 368 480 0

FLAG 144 496 0

FLAG 608 304 Vout

FLAG 144 288 Vin

FLAG -128 352 0

FLAG 64 128 VSP

FLAG 64 496 VSN

FLAG 432 256 VSP

FLAG 432 368 VSN

SYMBOL voltage 144 400 R0

SYMATTR InstName V1

SYMATTR Value SINE(0 0.4 502)

SYMATTR Value2 AC 1

SYMBOL res 368 272 R90

WINDOW 0 0 56 VBottom 2

WINDOW 3 32 56 VTop 2

SYMATTR InstName R1

SYMATTR Value 4k7

SYMBOL res 352 384 R0

SYMATTR InstName R3

SYMATTR Value 10

SYMBOL UniversalOpAmp 432 304 R0

SYMATTR InstName U1

SYMBOL res 496 144 R90

WINDOW 0 0 56 VBottom 2

WINDOW 3 32 56 VTop 2

SYMATTR InstName R2

SYMATTR Value 12k

SYMBOL voltage -48 160 R0

SYMATTR InstName V2

SYMATTR Value 12

SYMBOL voltage -48 336 R0

SYMATTR InstName V3

SYMATTR Value -12

TEXT -88 576 Left 2 !.tran 60m