// Library name: lab3\_boyz\_dnoronha

// Cell name: adv\_logic

// View name: schematic

subckt adv\_logic a b c d e y

P4 (y e net21 vdd!) ami06P w=9u l=600n as=1.35e-11 ad=1.35e-11 \

ps=21.0u pd=21.0u m=1 region=sat

P3 (net21 d vdd! vdd!) ami06P w=4.5u l=600n as=6.75e-12 ad=6.75e-12 \

ps=12.0u pd=12.0u m=1 region=sat

P2 (y c net21 vdd!) ami06P w=9u l=600n as=1.35e-11 ad=1.35e-11 \

ps=21.0u pd=21.0u m=1 region=sat

P1 (net21 b net32 vdd!) ami06P w=9u l=600n as=1.35e-11 ad=1.35e-11 \

ps=21.0u pd=21.0u m=1 region=sat

P0 (net32 a vdd! vdd!) ami06P w=9u l=600n as=1.35e-11 ad=1.35e-11 \

ps=21.0u pd=21.0u m=1 region=sat

V1 (0 0) vsource type=dc dc=0

V0 (vdd! 0) vsource type=dc dc=5

N4 (net30 c 0 0) ami06N w=3u l=600n as=4.5e-12 ad=4.5e-12 ps=9u pd=9u \

m=1 region=sat

N3 (y e net30 0) ami06N w=3u l=600n as=4.5e-12 ad=4.5e-12 ps=9u pd=9u \

m=1 region=sat

N2 (net19 b 0 0) ami06N w=3u l=600n as=4.5e-12 ad=4.5e-12 ps=9u pd=9u \

m=1 region=sat

N1 (net19 a 0 0) ami06N w=3u l=600n as=4.5e-12 ad=4.5e-12 ps=9u pd=9u \

m=1 region=sat

N0 (y d net19 0) ami06N w=3u l=600n as=4.5e-12 ad=4.5e-12 ps=9u pd=9u \

m=1 region=sat

ends adv\_logic

// End of subcircuit definition.

// Library name: lab3\_boyz\_dnoronha

// Cell name: sim\_adv\_circuit

// View name: schematic

I0 (A B C D E Y) adv\_logic

V4 (A 0) vsource type=pulse val0=0 val1=5 period=1u delay=10n rise=2.5n \

fall=2.5n width=497.5n

V3 (B 0) vsource type=pulse val0=0 val1=5 period=2u delay=12.5n rise=2.5n \

fall=2.5n width=997.5n

V2 (C 0) vsource type=pulse val0=0 val1=5 period=4u delay=15n rise=2.5n \

fall=2.5n width=1.9975u

V1 (D 0) vsource type=pulse val0=0 val1=5 period=8u delay=10n rise=2.5n \

fall=2.5n width=3.9975u

V0 (E 0) vsource type=pulse val0=0 val1=5 period=16u delay=15n rise=2.5n \

fall=2.5n width=7.9975u