

[illegible][illegible]

SignExtend

Extend the signal from 16 bits to 32 bits.

Data-flow: Using logical events occurring on the particular signals.

+... /signextend_tb/x	16'hXXX	ABCD	
+... /signextend_tb/y	32'h0000XXX	0000ABCD	0000X

1. It extends the 16bits signal to 32bits, when the original data is hex data ABCD, the final data should be 0000ABCD.

ShiftLeft

Logical shift left by 2 bits of the original data.

Data-flow: Using logical events occurring on the particular signals.

+... /shiftleft2_tb/x	32'hXXXXXXXX	0000000F	
+... /shiftleft2_tb/y	32'hXXXXXXXX	0000003C	

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