

INSERTION MASKING

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1.01 Insertion masking is performed on corresponding bits in a mask and two registers on a bit-by-bit basis.

<u>MASK</u>		<u>R_x</u>		<u>R_y</u>
1	and	Data	=	Insert here
0			=	No change

Ones in the mask are logically ANDed with the data in R_x then inserted into R_y. Data in R_y remains unchanged for all zeros in the mask. This is summarized as:

$$(R_x \& M) \mid (R_y \& rM)$$

Example: Mask=X (00FF) R_x=X (1234) (R_y=X(ABCD))

R _x =X (1234)	R _y =X(ABCD)
<u>M=X (00FF)</u>	<u>rM=X(FF00)</u>
34	AB

Result R_y=X(AB34)

NOTICE

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