Subject: Meaning of outer product Posted by Paul Sorenson on Sat, 13 Jul 2002 00:33:56 GMT View Forum Message <> Reply to Message

Greetings,

IDL documentation says: "Note - If A and B arguments are vectors, then $C = MATRIX_MULTIPLY(A, B)$ is a matrix with $C_{ij} = A_{iB_{j}}$. Mathematically, this is equivalent to the outer product. . . ." But I'm having difficulty reconciling this with my understanding of outer product. . .

$$c.x = a.y*b.z - a.z*b.y$$

 $c.y = a.z*b.x - a.x*b.z$
 $c.z = a.x*b.y - a.y*b.x$

... which yields a vector (c) instead of a 2D array. Can anyone shed some light on this?

-Paul Sorenson

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