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Solution: First of all, for any non-zero

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vector  $u \in \mathbb{R}^n$ , we have  $u^T H u \leq \lambda_1 u^T u$ : It follows that  $u^T (A + H) u \leq \lambda_1 u^T u + u^T A u$  for any non-zero vector  $u \in \mathbb{R}^n$ . By the Courant-Fischer minimax theorem, we have  $\lambda_j = \min_{S \subset \mathbb{R}^n, \dim S = j} \max_{u \in S} \frac{u^T (A + H) u}{u^T u} \leq \lambda_1 + \lambda_j$ .  $\lambda_j = \min_{S \subset \mathbb{R}^n, \dim S = j} \max_{u \in S} \frac{u^T A u}{u^T u} = \lambda_j$ :

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Algebra lineal numerica

consider a matrix  $G$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G_{11}$  of size  $n \times n$ .  $G = \begin{bmatrix} G_{11} & 0 \\ h^T & g_{n+1,n+1} \end{bmatrix}$ .

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Now by expanding the determinant of  $G$  along its last column we see that  $|G| = g_{n+1,n+1} |G_{11}| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$ , proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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DAVID S. WATKINS, PhD, is Professor of Mathematics at Washington State University.

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Since  $u$  and  $v$  are vectors the expression  $v$

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$\mathbf{A}^{-1} \mathbf{u}$  is a scalar and the  $\mathbf{I}$  is also a scalar namely, the number 1. Multiplying the above by  $\mathbf{A}$  on the left the linear system that  $\mathbf{x}$  must satisfy.  $\mathbf{Ax} = \mathbf{b} \mathbf{u} (\mathbf{1} + \mathbf{v}^T \mathbf{A}^{-1} \mathbf{u})^{-1} \mathbf{v}^T \mathbf{A}^{-1} \mathbf{b}$ . In this expression, both  $\mathbf{v}^T \mathbf{A}^{-1} \mathbf{u}$  and  $\mathbf{v}^T \mathbf{A}^{-1} \mathbf{b}$  are scalars, thus by factoring out the only vector.



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type  $b = A * x$ .

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Hassan S, Mahmoud M, Hemeida A and  
Saber M (2018) Effective introduction of  
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multi-core processor, Computer languages, systems and structures, 51:C, (158-175), Online publication date: 1-January-2018.

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