

**e()** — Unit vectors[Description](#)[Syntax](#)[Conformability](#)[Diagnostics](#)[Also see](#)

## Description

$e(i, n)$  returns a  $1 \times n$  unit vector, a vector with all elements equal to zero except for the  $i$ th, which is set to one.

## Syntax

*real rowvector*  $e(\text{real scalar } i, \text{real scalar } n)$

## Conformability

$e(i, n)$ :

<i>i</i> :	$1 \times 1$
<i>n</i> :	$1 \times 1$
<i>result</i> :	$1 \times n$

## Diagnostics

$e(i, n)$  aborts with error if  $n < 1$  or if  $i < 1$  or if  $i > n$ . Arguments  $i$  and  $n$  are interpreted as  $\text{trunc}(i)$  and  $\text{trunc}(n)$ .

## Also see

[M-4] **Standard** — Functions to create standard matrices

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