

# Computer Models For Fire and Smoke

*Model Name:* EVACS

*Very Short Description:* Occupant's evacuation model in fire.

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*References:* An Evacuation Model for the Use in Fire Safety Designing of Buildings, Proc. of 2<sup>nd</sup> International Symposium on Fire Safety Science; Report of the Building Research Institute No. 119

*Availability:* On request

*Language:* FORTRAN 77

*Size:* 73 kB (source), 88 kB (executable)

*Detailed Description:*

*Input:*

Building geometry, number of people in each space, walkspeed

*Output:*

Number of people in each space, at crowding, at arbitrary elapsed time, evacuation time.

*Assumption:*

Uniform distribution of occupants at the start; uniform walk speed at each space; movement in the direction specified by designers.