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Language : Fortran

Library: MATHLIB
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Find Compatible Node-Nets in an Incompatibility Graph

`GRAPH` finds all compatible sets of events (nodes) in an incompatibility graph (in which incompatible events or nodes are connected). It is useful, for example, in track-matching programs for eliminating spurious tracks.

On each call, one compatible node-set is returned. The user may decide in the first call whether the solutions should be evaluated over the whole graph or subgraph by subgraph. Indications on ”end-of-graph” and, if applicable, ”end-of-subgraph” are given.

Structure:

`SUBROUTINE` subprogram
User Entry Names: `GRAPH`
Internal Entry Names: `PGRAPH`, `GETBIT`, `SETBIT`, `TUP`, `IGET`, `TREVNI`
External References: `JBIT` (M421), `SBIT` (M421), `JBYT` (M421), `SBYT` (M421), `UFILL` (V300), `UZERO` (V300)
`COMMON` Block Names and Lengths : `/BITSXB/ 2`

Usage:

See **Long Write-up**.

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