FAST/PC

A Failure Analysis by Statistical Techniques Program for PC

The **FAST/PC** (Failure Analysis by Statistical Techniques) is a tool developed over the past decade because of the need for evaluating the nuclear survivability of strategic weapons systems. These weapons systems happened to employ many sites built almost identically. This led to early recognition that a statistical approach would be useful to take into account such random variations as those in soil properties and construction quality.

The **FAST/PC** methodology has been applied mostly to in-place weapons systems for the purpose of evaluating inherent system hardness or the benefit of hardness improvements. The FAST technique has also been used in safety analysis of ships, and is applicable to earthquake design. In general, it has wide potential applicability to the hardness/survivability evaluation of any military or civilian system. The purpose of this document is to transmit the **FAST/PC** capability to other potential users so they can employ it in their applications.

The code is written in FORTRAN IV and originally was developed for use at TRW System Group facilities for the VAX Computer over the past decade, mainly for the MINUTEMAN under sponsorship of the Air Force Space and Missile Systems Organization (SAMSO).

We at **Galaxy Advanced Engineering, Inc.(GAE)**. have taken steps to develop the same capability of the code for PC users. Currently the code is running on either PC/DOS or PC/Windows/95/98 and NT or %100 compatibles with or without a math coprocessor.

Test Model	Total Run Time
Using FASTIN File	5 minutes

If one uses the AT with CPU 80386 and Math-Coprocessor 80387 the program run time cuts by half. This is based upon 25 MHz available speed on the computer. Please call us for more information and how to obtain our package for PC or compatible system. To order this code please contact our company at (650) 525-1314