SIGMA	CERN Program Library	Q122

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SIGMA - System for Interactive Graphical Mathematical Applications

`SIGMA` can be considered a system for interactive on-line numerical analysis problem-solving which has been designed essentially for mathematicians and theoretical physicists. The major characteristics of `SIGMA` are:

- The basic data units are scalars, one-dimensional arrays, and multi-dimensional rectangular arrays; `SIGMA` provides automatic handling of these arrays.
- The calculational operators of `SIGMA` closely resembles the operations of numerical mathematics; procedural operators are often analogous to those of Fortran.
- The system is designed to be used in interactive mode; it provides convenient facilities for graphical display of arrays in form of (sets of) curves.
- The user can construct his own programs within the system and has also access to a program library; he can store and retrieve his data and programs; he obtains on request hard copy of alphanumeric and graphical type.

`SIGMA` was operational for many years on the CYBER computers at CERN. Most of its functionality has been converted to run on other machines as part of the `PAW` (Q121) package.

Usage:

See Chapter 6 of the `PAW` Manual.

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