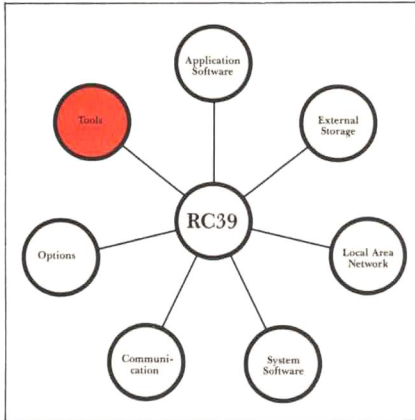


# Microsoft FORTRAN

Microsoft FORTRAN is the appropriate tool for development of scientific and engineering applications.

Microsoft FORTRAN is based on the ANSI X3.9 — 1978 standard and features a wide range of additional facilities. Direct call makes it possible to link Microsoft PASCAL, Microsoft C or Microsoft Macro Assembler routines with Microsoft FORTRAN.





### Microsoft FORTRAN

Microsoft FORTRAN is a high-performance compiler based on the ANSI X3.9 – 1978 standard. It is well suited for scientific and engineering applications, whether new development or porting of existing applications.

Microsoft FORTRAN is a complete development system consisting of a compiler, a runtime library, a linker, a librarian and debugging facilities.

To reduce the development time and to optimize the finished programs, Microsoft FORTRAN enables direct call of routines written in Microsoft PASCAL, Microsoft C and Microsoft Macro Assembler.

Microsoft FORTRAN features full support of XENIX facilities such as file sharing, record and file locking and multitasking (simultaneous execution of several programs).

To optimize mathematical calculations, Microsoft FORTRAN provides 3 maths libraries featuring:

- Full utilization of RC3911 (80287 maths co-processor) or emulation of 80287.
- A floating point maths library ensuring a high degree of precision.
- An alternative library increasing the speed of systems which do not include RC3911. However, the improvement does not correspond to the performance of RC3911.

Microsoft FORTRAN includes complex data types and double-precision calculations to 15 significant digits.

Microsoft FORTRAN enables development of programs of 1.3 MB memory, and if this is inadequate, the compiler facilities may be used to break down large, complex programs in smaller, less complex parts using overlay techniques. Arrays and COMMON blocks are only limited by the amount of user memory. Microsoft FORTRAN requires min. 256K; available user memory (512K recommended).

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