

Fortran cours pdf

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Par conséquent, tout ce qui est dit ici devrait rester valable avec les normes futures. Enfin, je veux insister sur le fait que quel que soit le cours que vous utiliserez, il Left: The structure of a Fortran program with no procedures. Fortran General Philosophy I Strongly oriented to number crunching I Efficient language, highly optimized code I Basic data types and operators mapping naturally to CPUs I A Fortran program consists of a sequential list of Fortran 'statements' and 'constructs'. Right: The structure of a Fortran program with a main program, a subroutine, and a function. A Names are used for referencing many Fortran entities e.g., variables, program units, constants, Constraints: between and alphanumeric (a-z, A-Z, -, 9, _) Really Basic I/O READ *, reads from stdin PRINT *, writes to stdout Both do input/output as human-readable text Each I/O statement reads/writes Accessibility The public and private attributes More control of access from a module Pointer functions denoting variables The pointer, target, and allocatable en passant du fortran au fortran Les nouvelles normes fortran (puis fortran, fortran) n'apportent que des fonctionnalités nouvelles. The structure of a main program is: program name I arations statements. For now we will assume all the statements are in the main program; subprograms will be treated later. A statement can be seen a continuous line of code, like 'b=a*a' or 'INTEGER a,b'. stop end What Fortran Provides There must be a single main program There are subroutines and functions All are collectively called procedures A subroutine is some out-of-line code There are very few restrictions on what it can do It is always called exactly where it is coded A function's purpose is to return a result There are some restrictions on 4 Intrinsic Functions Fortran supplies numerous functions, e.g., Sqrt, Sin, Cos, Tan, Exp, Log. Some of these operate only on particular data types, e.g., Sqrt should be given a real rather than an The main program and the two procedures are contained in the same source file, for instance, plot of the function $\gamma(v)$ output from the program Golf.f90 A Fortran program generally consists of a main program (or driver) and possibly several subprograms (or procedures or subroutines).

 Difficulté Difficile

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