Exercise 1 Compiling and "Hello World!" (17.10.2025)

Review

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1. Which name of a variable is not an	im- $\hfill\Box$ an ampersand & in column 6
plicit valid name for floats? \Box MASS	\Box character C, *, ! in column 1
☐ RADIUS ☐ XLum	3. What is not a valid data type in Fortran? (If not sure, just try it.)
	□ INTEGER
2. How can you mark a comment in Fort 90 (fixed form)?	ran
\square leading !	□ DOUBLEPRECISION
latter one, login on the student's c and execute the following commands	ible Fortran(77) program. You may also use the ifort compiler. To use the luster (e.g., bell.stud.physik.uni-potsdam.de) in the Bash:
source ~htodt/intel/compose	rxe-2011/bin/compilervars.sh intel64
or if you have the C-shell (tcsh):	
source ~htodt/intel/composer	xe-2011/bin/compilervars.csh intel64
Which shell you are using, can be ch	necked via: echo \$0
a) What size has the resulting bin	ary? Does this size depend on the compiler? (1 P)
, -	of the Unix tools 1dd and nm. Which libraries are ween the compilations of different compilers? (1 P)
2. Task Hello world! (5 P) Write a Fortran(77) program that pr	rints out "Hello world!" in the terminal.
a) with help of WRITE(*,*); (0.5)	P)
b) with help of WRITE and the cor	rect format. (1 P)
c) Which alternative to WRITE exi	sts? (0.5 P)
•	ortran 90 and FORTRAN 77 regarding the structure r program for both Fortran versions (two different dags are required? (1 P)

e) Moreover, the program "Hello world!" should also print out the number 0.75E-3

The format should be done with help of a FORMAT instruction. Where, whithin the

exactly in this format: Hello world!0.75E-3.

source code, is a good position to put it? (2 P)