

excel – FORTRAN – excel

FORTRAN was the chosen programming language to build trendingBot because of its salient performance on mathematical coding

- effective system of array operations
- high speed of executions, mainly due to a restricted use of pointers
- solidly consolidated language → robust and well-defined environment ideal for complex algorithms

important drawbacks are associated with a so old programming language

1 – no graphical design capabilities → coupled GUI [different language]

microsoft excel was the choosing platform to deal with the IO systems, mainly because of the following reasons

- widely-used format [lower compatibility problems]
- powerful in-built calculating engine → user can perform accessorial operations
- letting our team focus on actual algorithm development [secondary tasks release]

2 – incompatibilities with new programs → f90SQL does not work for openoffice

the program managing all the communications between excel and FORTRAN is called f90SQL and does not consider openoffice and excel as fully compatible

conclusions

- ✓ excel represents just a rudimentary user-interface [no calculations are performed]
- ✓ openoffice can only be used with a specially-adapted version of trendingBot
- ✓ during the simulations, it is recommended not using excel [in order to avoid some interferences in the communication excel-FORTRAN-excel]