

FORTRAN

FORTRAN Concepts/Contributions

- Binding time
- Separate compilation
- Modules
- Retention (data)
- Initialization of data objects
- Strong/weak typing (FORTRAN definitely weak!)
- Auto declaration
- Operator overloading
- Aliasing (in common blocks)
- Coercion

FORTRAN Design Considerations

- Underlying hardware
- Efficiency (time)
 - direct translation to machine ops
 - optimization
 - DO loops
 - array subscripting
- Efficiency (space)
 - equivalence
 - common
 - flat structure (no recursion)