## Data Types

Copyright (c) 2011-2012 Young W. Lim.
Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".
Please send corrections (or suggestions) to youngwlim@hotmail.com.
This document was produced by using OpenOffice and Octave.

## 4 Classes of Data Types

Scalar Type

- Enumeration Type
- Numerical Data Types
  - Integer
  - Real
- Physical Data Types

Composite Type

Array

Record

Access Type

dynamic memory allocation

File Type

test vectors

## References

- [1] http://en.wikipedia.org/
- [2] J. V. Spiegel, VHDL Tutorial, http://www.seas.upenn.edu/~ese171/vhdl/vhdl\_primer.html
- [3] J. R. Armstrong, F. G. Gray, Structured Logic Design with VHDL
- [4] Z. Navabi, VHDL Analysis and Modeling of Digital Systems
- [5] D. Smith, HDL Chip Design
- [6] http://www.csee.umbc.edu/portal/help/VHDL/stdpkg.html
- [7] VHDL Tutorial VHDL onlinewww.vhdl-online.de/tutorial/