Digital design using HDL

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* Hardware modeling using verilog

- Design complexity increase rapidly
  - Increased size & complexity
  - Fabrication technology improving.
  - CAD tools are essential
  - Conflicting requirements likes area speed & energy consiption.

* Moore's law
- Exponent growth
- Design complexity increases rapedly
- automatial tools are essential
- Must follow well-defined design flow

* VLSI design flow
- specification
- synthesis
- simulation
- layout
- testability analysis & many more
- Need to use CAD tool.

Seasitivity test: Indicate that when a change occures to any one of elements in the list change, begin... end statement inside that always block will get execute.

PLI (Programming language interface) of verilog HDL is a mechanism to interface verilog programs with programs written in C language.

Python

HALLB ECO#6

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* Build a web-based financial graph

- Candlestick chart is used for analysis in stack marketing data.

- Downloading Datasets with python-
from pandas_datareader import data

- Stack market data candlestick charts:-
start = datatime.datetime (2016, 3, 1)
end = datatime.datetime (2016.3.10)
df = data.DataReader (name = "GOOG", data source = "Yahoo", start = start, end = end)
df.

- Embedding the Bokeh chart in a webpage-
→ from flask import flask, render_template
app = flask (__name__)
@ app.route ('/')
def home();
return render_template ("home.html")
@ app.route ('/about')
def about();

return render_template ("about.html")
if __name__ == "__main__":
app.run (debug = true)

Code for script :-

from flask import flask, render_template
app = flask (__name__)
@app.route ('/plot1')
def plot():
from pandas import flask, render_template
import datatime
from boksh.plotting import figure, show
import datatime
from bokeh.plotting import figure, show, outputfile
from bokeh.resources import components
from baeh.resources import CDN.
start = datatime.datatime (2015, 11, 1)
end = datatime.datetime (2016, 3, 10)
df = data.DataReader (name = "GOOG", data_source =
"Yahoo", stat = start, end = end)

plotting :-

$('#' ordents "layout.html").$