

*"Simulation system to address the entire spectrum of simulation namely, Offline simulation, Real-time simulation and Hardware in loop (HiL) Simulation"*

# FSS Mini

Miniature Model of  
Full Spectrum Simulator

An indigenously developed system that provides both off-line and real-time simulation capabilities at an affordable cost, easily configurable for custom applications. A Miniature version is configured as an educational package and small system simulation. The system jointly developed by IIT Bombay, IISc Bangalore & CDAC(T), sponsored under NaMPET.



## SPECIFICATIONS

- ✘ 9 Numbers of 32 bit floating point DSPs operating at 150mflops in one processor rack
- ✘ Linux based workstation for simulation configuration and user interface
- ✘ PC interface through USB
- ✘ 12 Analog Inputs & 12 Analog Outputs
- ✘ 24 digital inputs & 24 digital outputs
- ✘ Real time PWM digital input capability for HiL

## FEATURES

- ✘ A simulation platform for System simulation and Studies , Closed loop testing of Controllers , Education and Training , Closed loop Testing of Protective Relays
- ✘ SEQUEL (A Solver for circuit EQuations with User-defined Elements) - an indigenous simulation package for offline simulation with advanced features for PE&PS simulation.
- ✘ DC, transient, small-signal analysis
- ✘ Efficient "steady-state waveform" computation
- ✘ Graphical User Interface (GUI)

## ADVANTAGES

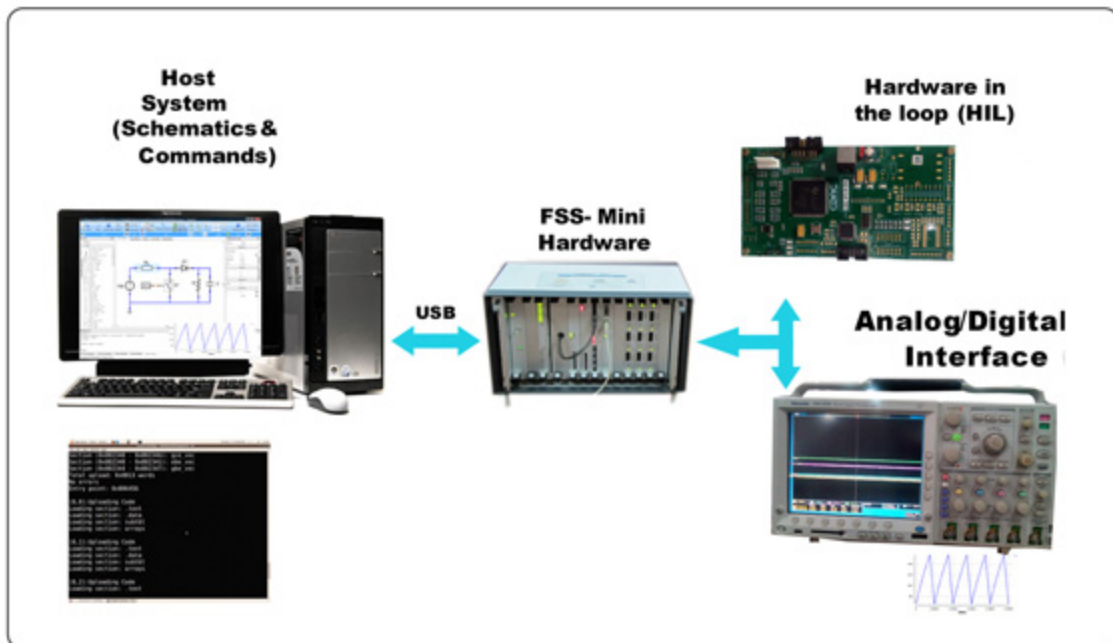
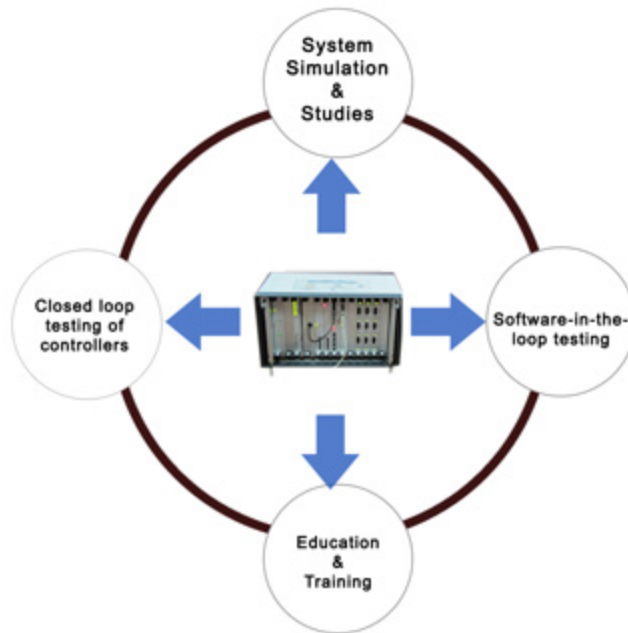
- ✘ An indigenously developed system that provides both off-line and real-time simulation capabilities at an affordable cost, easily configurable for custom applications.
- ✘ Embedded controller development for power electronic equipment with HiL
- ✘ Faster development with reduced testing time



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# End Users



## Real time Simulation Environment

### Deployed Institutes

 <b>RIT</b> Kottayam	 <b>College of Engineering</b> Guindy	 <b>NIT</b> Trichy	 <b>IIST</b> Shibpur	 <b>VNIT</b> Nagpur	 <b>IIT</b> Bombay	 <b>IISc</b> Bangalore
 <b>IIT</b> Rourkee	 <b>NITK</b> Surathkal	 <b>NIT</b> Calicut	 <b>Goa College of</b> Engineering	 <b>Delhi Technological</b> University		