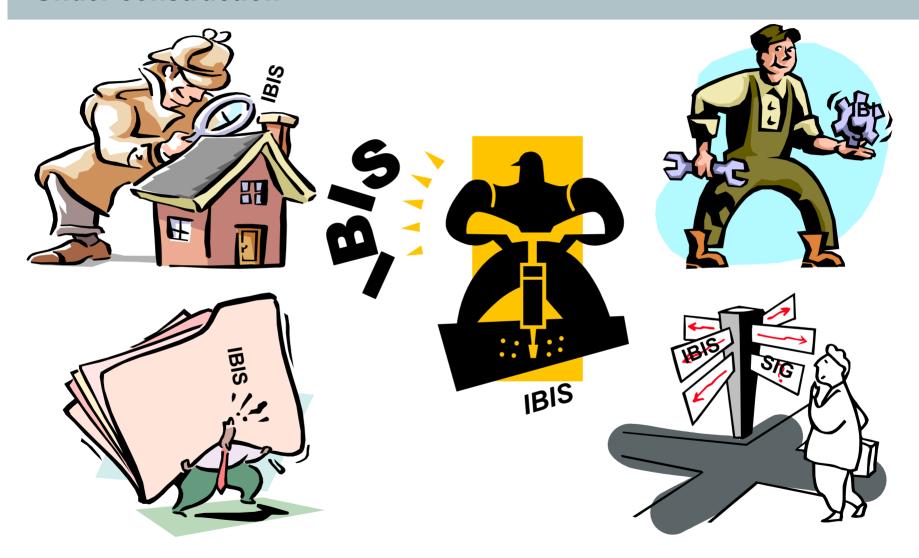
Siemens IBIS group update 2006

SIEMENS

Under construction





Introduction



The SIEMENS IBIS GROUP is formed by members of different Siemens divisions. This group has defined a common quality level for ibis models which is required by all SIEMENS divisions.



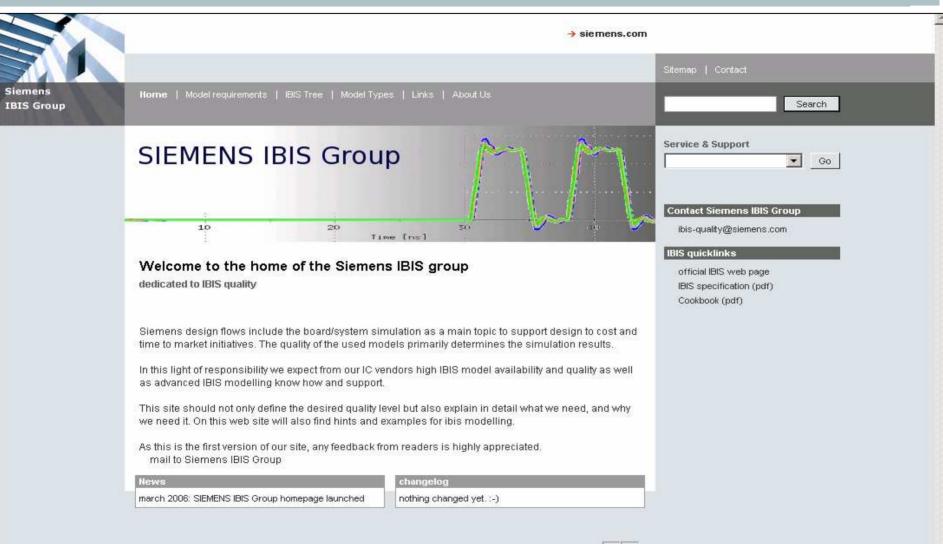
SIEMENS design flows include the **board/system simulation as a main topic** to support **design to cost** and **time to market** initiatives. The quality of the used models
primarily determines the simulation results.



In this light of responsibility we expect from our IC vendors high IBIS model availability and as well as advanced IBIS modeling know how



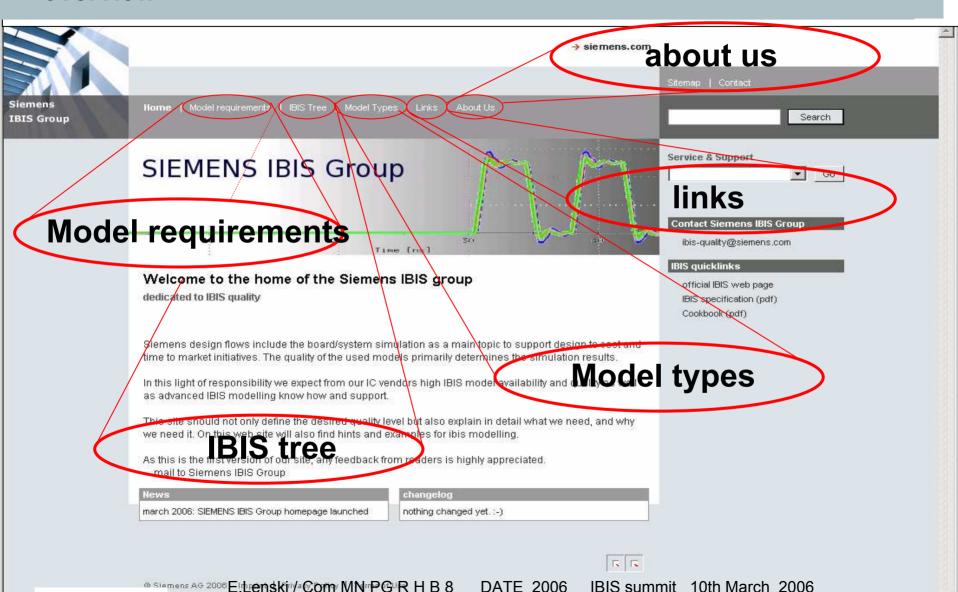
Homepage preview



5 5



overview



Local intranet

SIEMENS

Example



IBIS tree



Model keyword



Model Spec



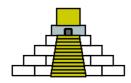
Receiver thresholds



Voltage range



Ramp / ...waveforms



Ramp should be in accordance with the static curves



Explanation of model requirements

Title refered ibis keyword

Ibis reference corresponding ibis keywords

Requirements what is needed

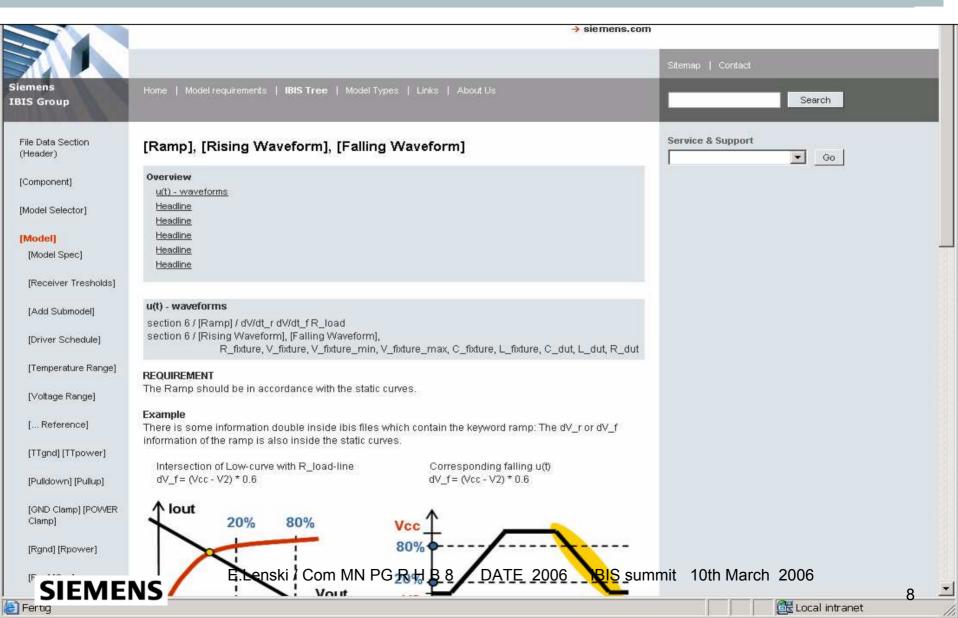
Example explanations and descriptions

Hints infos e.g. about ibis default

Links further information, or related keywords



Ibis tree with example



Ramp – static curves

[TTgnd] [TTpower]

[Pulldown] [Pullup]

[GND Clamp] [POWER Clamp]

[Rgnd] [Rpower]

[Rac] [Cac]

[On] [Off]

[... Series]

[Series Current]

[Series MOSFET]

[Ramp] [... Waveform]

[Test Data]

[External Model]

[Submodel]

[External Circuit]

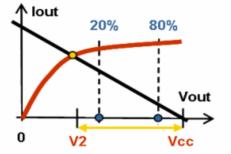
[Define Package Model]

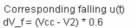
.pkq file

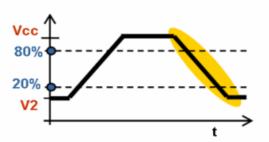
.ebd file



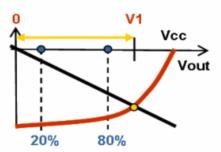
Intersection of Low-curve with R_load-line $dV_f = (Vcc - V2) * 0.6$



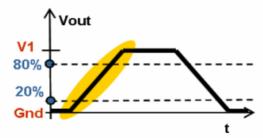




Intersection of high-curve with R load-line $dV_r = V1 * 0.6$



Corresponding rising u(t) $dV_r = V1 * 0.6$



Hint

Wrong or missing R_load. If the R_load keyword is missing this is equal with R_load = 50ohms. In this case you can try to add an R_load different to 50 ohms and see if you can match all 6 dV - values with the static curves.

Links

see also [PulldowE:Lenski / Com MN PG R H B 8 DATE 2006

IBIS summit 10th March 2006





Summary



www.siemens.com/ibis



Start: june 2006 or earlier



Email to: ibis-quality@siemens.com

