
EDAC CEO Panel: Market Outlook and Trends

Alan Naumann
CEO CoWare, Inc

The Disruptive Effects of 90nm Technology

Fab costs at \$4B Result in Fewer IDMs & Fabs

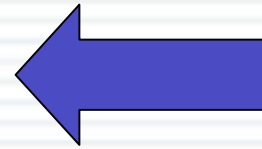
- Semiconductor industry becomes increasingly design and IP centric
- Key IP – processors (all kinds), buses, memories



IP



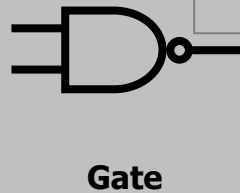
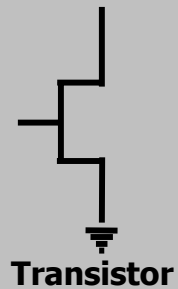
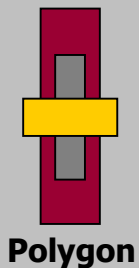
Design



Fab

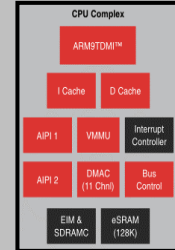
The Disruptive Effects of 90nm Technology

Exploding Gate Counts Demand a Change in Design & Verification



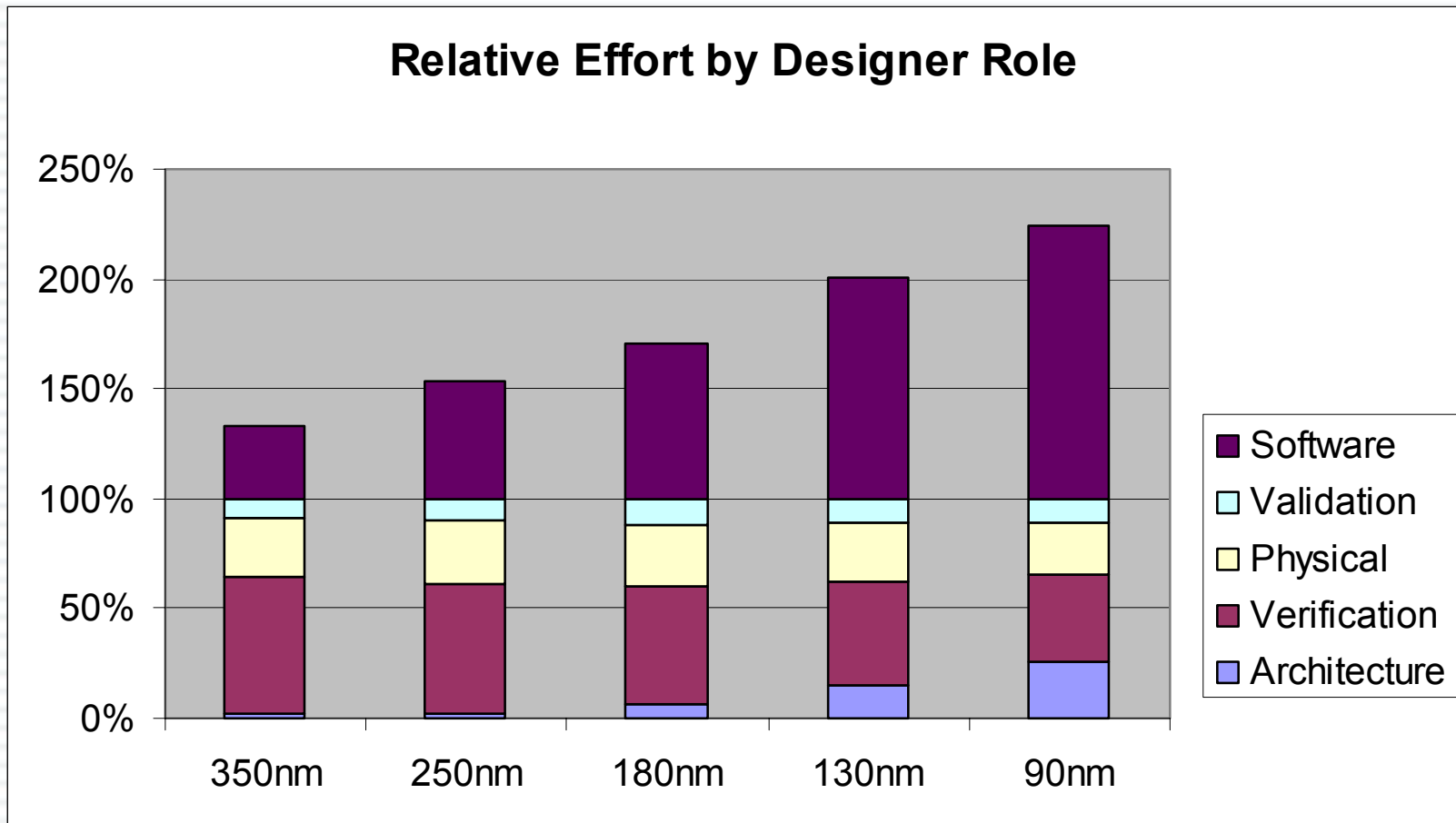
```
module lcd_panel_control
reg panel_1, panel_2;
reg numeric_input, alpha;
event blank, latest_input;
begin
```

Hardware Description Language



Processor and IP Based Design

SoC Challenges Reflect "Systems" Issues (Architecture and Software)



IBS Nov. 2002

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