NVIDIA® Quadro® Professional Solutions for the Manufacturing Market

OLD workflow diagram

Engineering Data Creation (CAD)

Engineering Validation and Testing (CAE)

Engineering
PDM/ PLM

Plant Floor Sim, layout and virtual manufacturing

Plant
OPS PLM

Styling, Design and Visualization

Technical Pub and Marketing

Plant Automation and Quality

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NEW workflow diagram

Engineering Data Creation (CAD)

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Plant Floor Sim, layout and virtual manufacturing

Enterprise PDM/ PLM

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Plant Automation and Quality

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What are the “Pain Points” in the Workflow?

The Pain

1. Reduce Marketing Costs
2. Reduce infrastructure costs
3. Increase quality, reduce Defects
4. Am I selling a commodity?

The Solution

1. Leverage High end Graphics for Rendering and raytracing. Use advanced shaders to create REAL images from live engineering CAD data.
2. Leverage full suite of NVIDIA graphics in mixed Blade environments to create an on demand hardware toolbox that engineers can use when needed. Without the desktop costs
3. Use real-time shaders and larger Video Memory in the graphics solutions along with Desktop GPU Compute for faster validation. Turn on Hardware features in Graphics that you never could use at the price p0ints (FSAA)
4. Use new NVIDIA Middleware and functionality to create “tip of the Spear” solutions. These are unique solutions that cannot be done easily by the competition and establishes a standard in a vital part of the business. (think sony 4k projectors, scalable graphics, new software finctionality)

The Product

1. FX4800, FX3700M (blade and laptop)
2. FX3700M, FX4800 in Sidecar
3. G100 GPU (FX4800+), Tesla Compute
4. Quadro Plex d2, d4,m FX5800, FX4800

Certified Applications

DESIGN

Autodesk

AVEVA

DASSAULT SYSTEMES

ICEM

PTC

Engineering the future together

VISUALIZE

mental ray

Bunkspeed

Co|Create

RTT challenging reality

VALIDATE

ESRI

ANSYS

LSTC Livermore Software Technology Corp.

ABAQUS

NV Middleware & Key Features

- NVSG
- NVScale for Large Data Visualization
- Interactive Ray Tracing
- SLI Mosaic Mode
- 30 bit color for styling
- Stereo
- Transparent Multi-display and 4K display support

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NVIDIA Quadro Product Line-up

NVIDIA Quadro FX 5600

NVIDIA Quadro FX 5800

NVIDIA Quadro FX 4600

NVIDIA Quadro FX 4800

NVIDIA Quadro FX 3700

NVIDIA Quadro FX 1700

NVIDIA Quadro FX 570

NVIDIA Quadro FX 370

Pro 3D

Pro 2D

NVIDIA Quadro NVS 290

UNDER EMBARGO THROUGH NOV 15, 2008

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GPU Sales in Manufacturing

Volume CAD deals are won by being relevant in the business critical “tip of the Spear” communities, Price is secondary to technical requirements. Usa the GPU and features to create a differentator.Op;o

NVIDIA GPU Computing and Middleware like SLI Mosaic and Nvscale will make you relevant to the important people in your accounts.

There is a freight train coming. Applications that use CUDA and NVIDIA GPUs ill be the next volume “Killer App” in the manufacturing space Get ready