



R Systems NA, Inc.

CASC Meeting

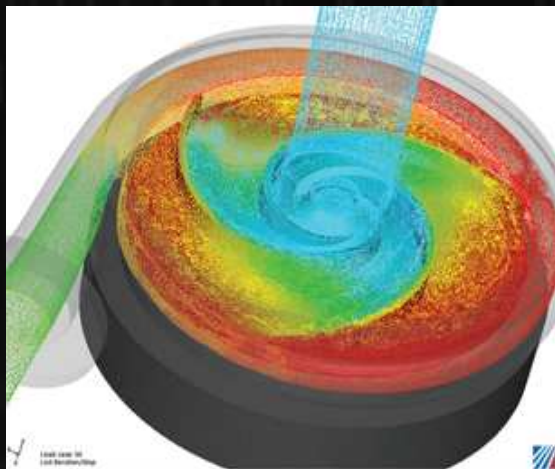
March 16, 2011



CFdesign + HPC = Performance Leap

Cornell Pump optimizes its software on R Systems' high-performance computing environment.

Cornell Pump



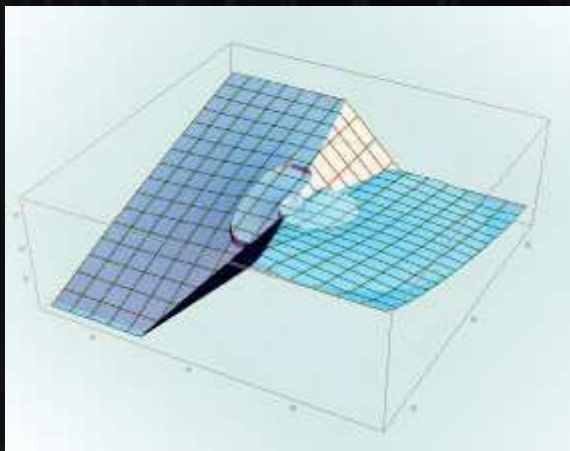
View of internal flow patterns of Cornell's centrifugal pump modeled with CFdesign. It also highlights the liquid pressure.

- *Internal Workstations*
- *Limited HPC Experience*
- *Increased Work Load*
- *Used 8 nodes*
- *~20,000 core hours, less than 2 weeks*
- *100x improvement*



R Systems HPC Solution dramatically reduces the iCyt design cycle.

iCyt Mission Technology, Inc.



iCyt's optical model

- *Internal Workstations*
- *No HPC resources*
- *~525 days to completion*
- *Critical Component for new machine*
- *~27,000 core hours*
- *Finished design, early to market*
- *Company acquired by Sony Life Sciences*