

DEISA EXTREME COMPUTING INITIATIVE



LCDIS - Monte Carlo Simulation of a Twisted Nematic LCD

LCD cell dimensions: $0.1\mu\text{m} \times 0.1\mu\text{m} \times 0.05\mu\text{m}$

System size: $\sim 10^6$ molecules

Equilibration time: $2 \cdot 10^6$ MC cycles

Project period: 05/2006-05/2007

128 PE @CSC

64 PE @CINECA

150.000 CPU hours

60.000 CPU hours

Investigation on the formation of helicoidal microscopic structures corresponding to the switched-off display and simulation of the optical images of pixels in a liquid crystal TN display

