Table 4: Industrial HPCC Applications 23 to 24 for Information Access *InfoVision*—Information, Video, Imagery and Simulation on Demand (Sec. 4.5)

Item	Application Area	Comments	Problem Structure	Machine & Software
23 **Sec. 4.5**	**Imagery on Demand** • Kodak Global Image On Demand • "clip art" on demand • Medical images • Satellite images	• Multimedia database • Image Understanding for Content searching and (terrain) medical feature identification	• Metaproblem • Embarrassingly Parallel plus • Loosely Synchronous Image Understanding	MIMD but much SIMD image analysis
24 **Sec. 4.1, 4.4, 4.5**	**Simulation on Demand** • Education, Tourism, City planning, • Defense mission planning • VRML displays in the home from weather simulations • Financial modeling on server or client to aid investment	• Multimedia map database • Generalized flight simulator • Geographical Information System	• Synchronous terrain rendering with • Asynchronous Hypermedia	• SIMD terrain engine (parallel rendering) • MIMD database • **Integration** software