Dynamic Time Response Compared to Full Model

Reduced System Model
Reduced Component Model
Reduced Impedance Model

Direct Integration of the Models for Response
Full Abaqus (24 hr) vs 33 DOF (2 min)
Full Abaqus (24 hr) vs 15 DOF (1.5 min)

Novel analytical model improvement and updating techniques based on substructure components provide very accurate models for time response characteristics and flexible multi-body dynamic response studies.