

# PERMAS

## Parallel



*shorter run times in Finite Element analysis* ▶

*bigger Finite Element models* ▶

*more complex analyses* ▶

*higher analysis throughput* ▶

**You want...**

*parallel execution for all applications (incl. nonlinearities and contact)* ▶

*which can easily be used because it works fully automatic* ▶

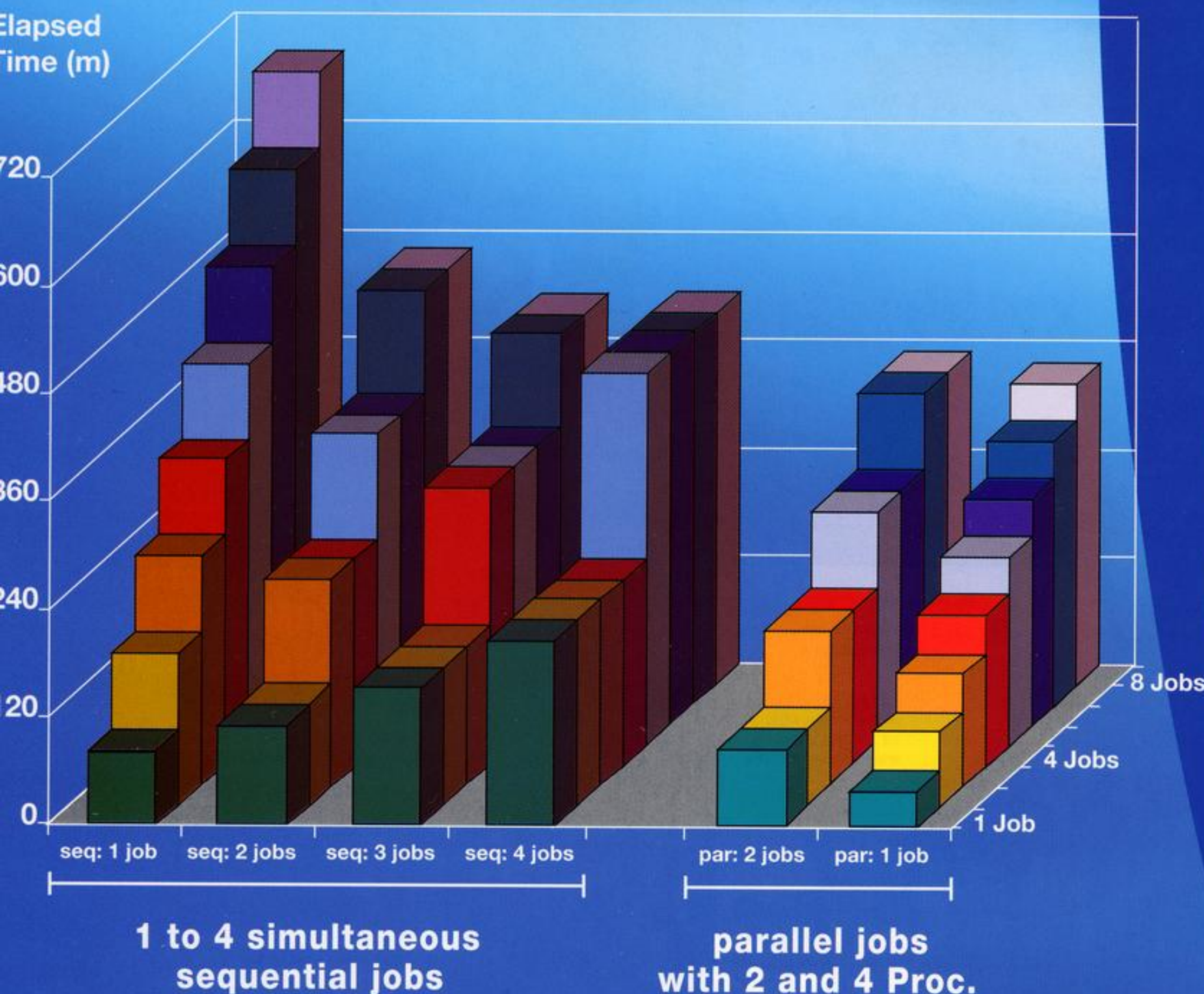
*which gives reduced run times on any number of processors* ▶

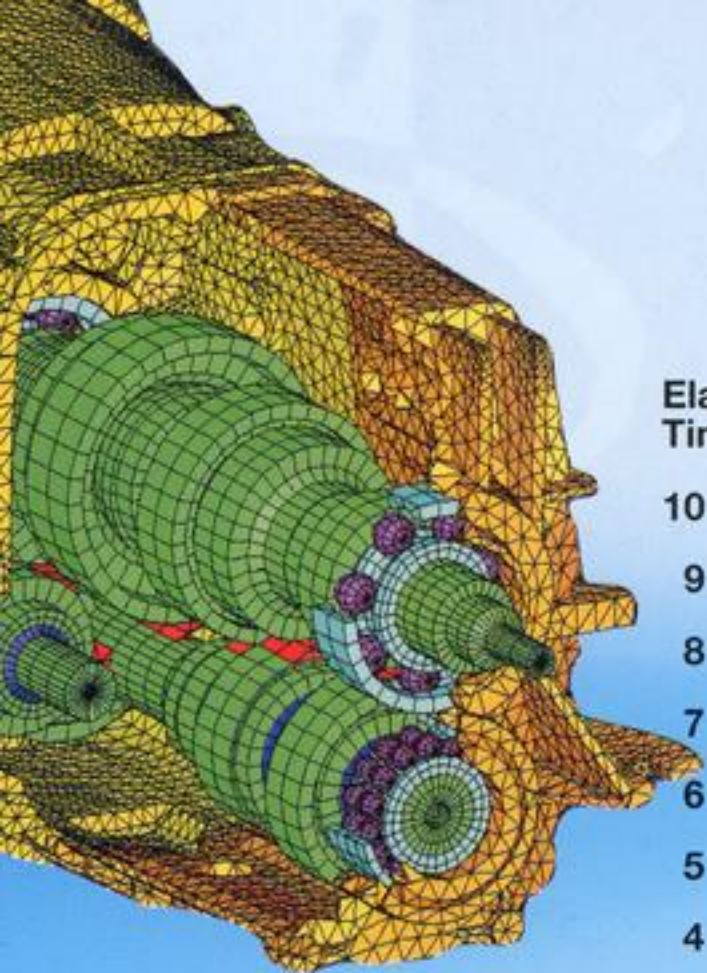
*which gives identical results as sequential execution* ▶

**PERMAS Version 7 provides...**

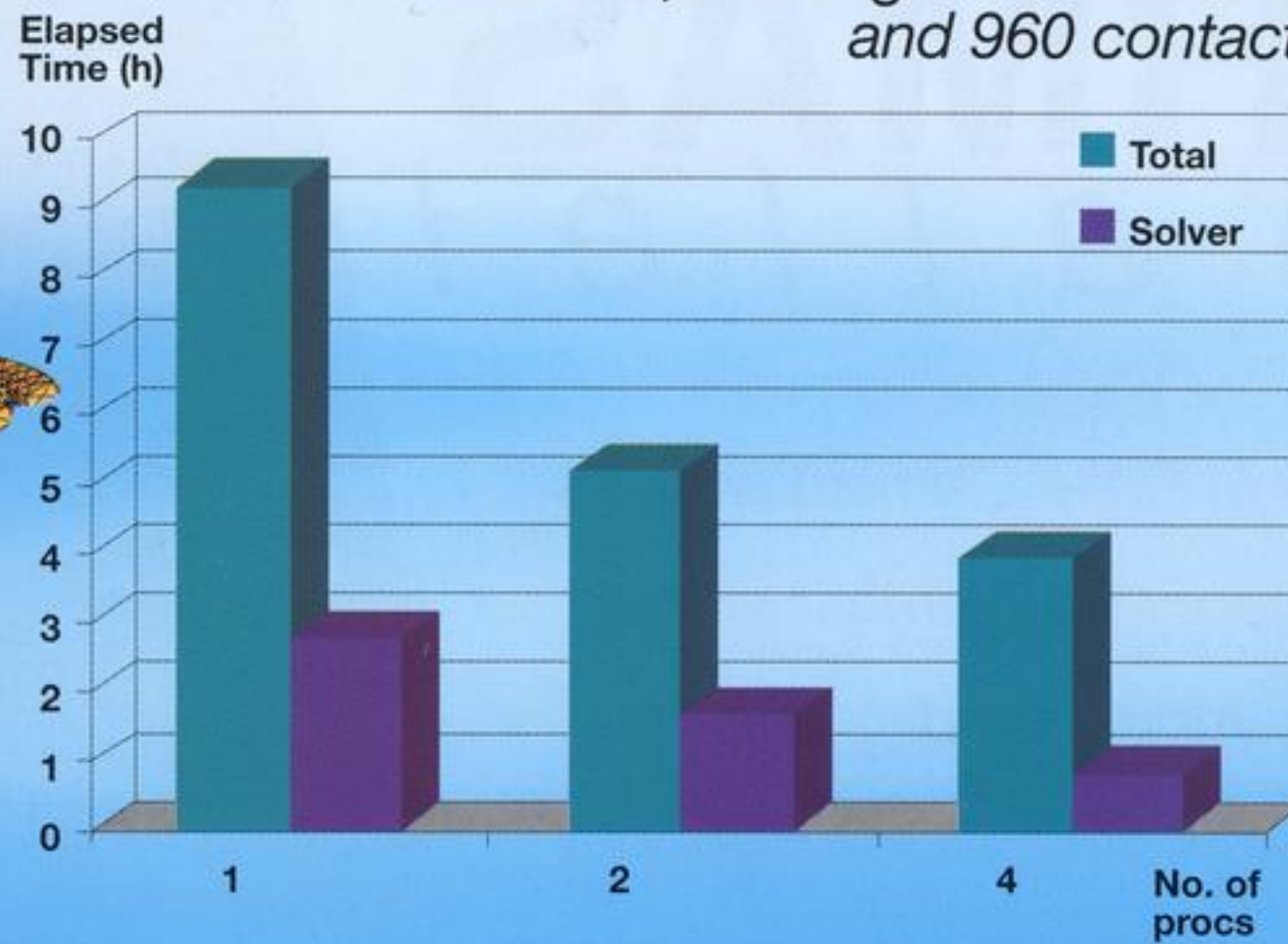
**Aluminium wheel on 4 processor HP9000,  
linear statics (1 loading case)  
with 796,000 degrees of freedom for half of the wheel**

**Throughput benchmark on  
shared-memory machine**



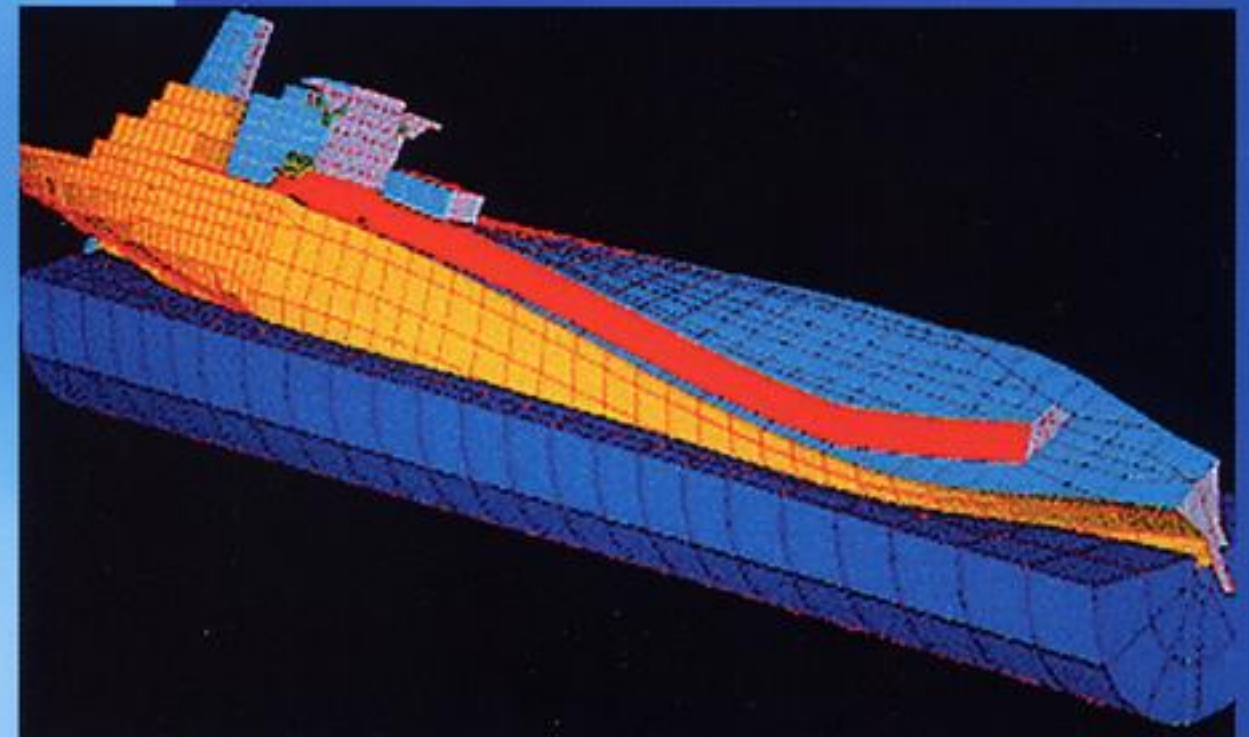
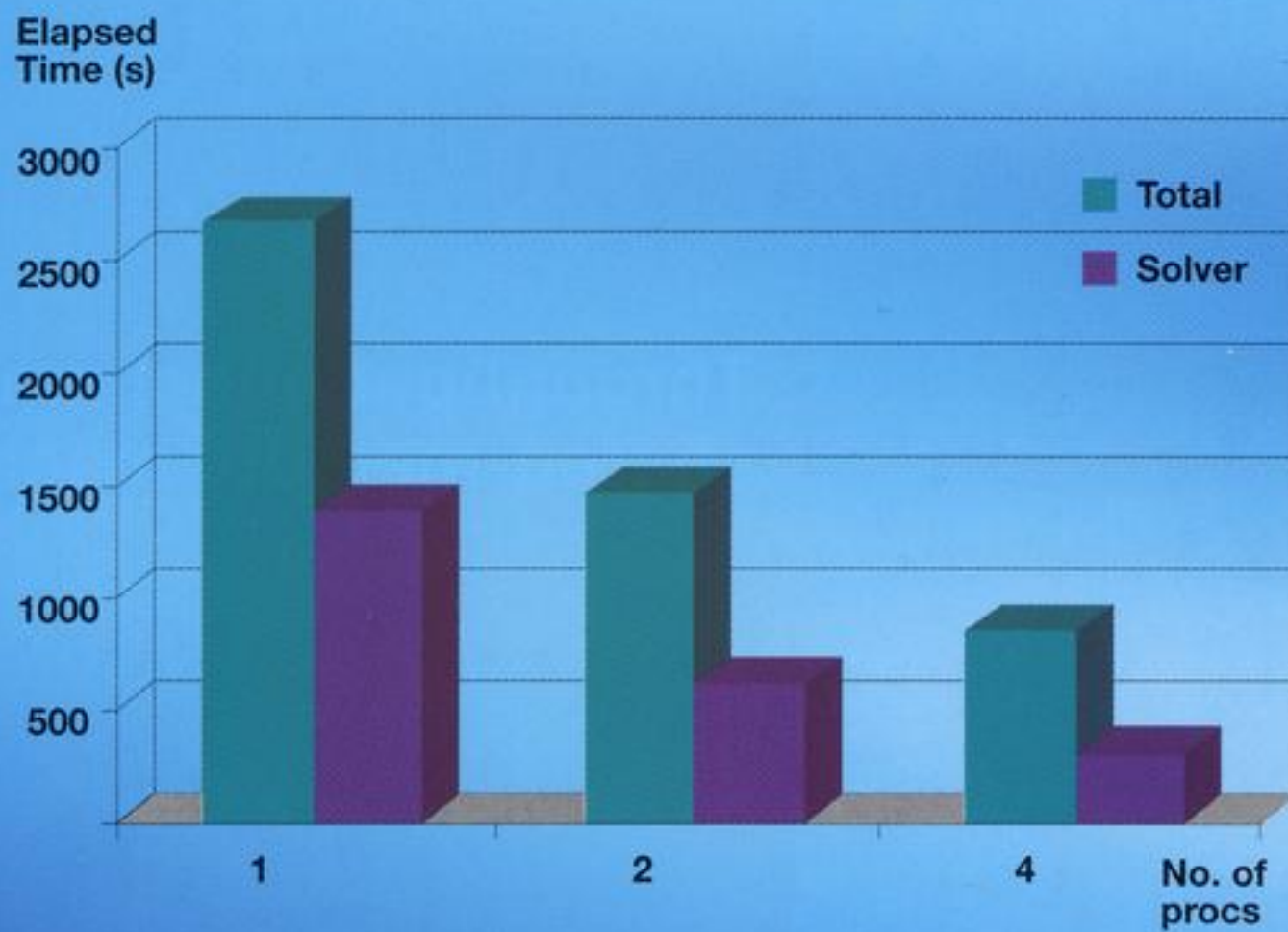


Transmission housing on WS cluster  
IBM RS6000/590  
with 930,000 degrees of freedom  
and 960 contacts



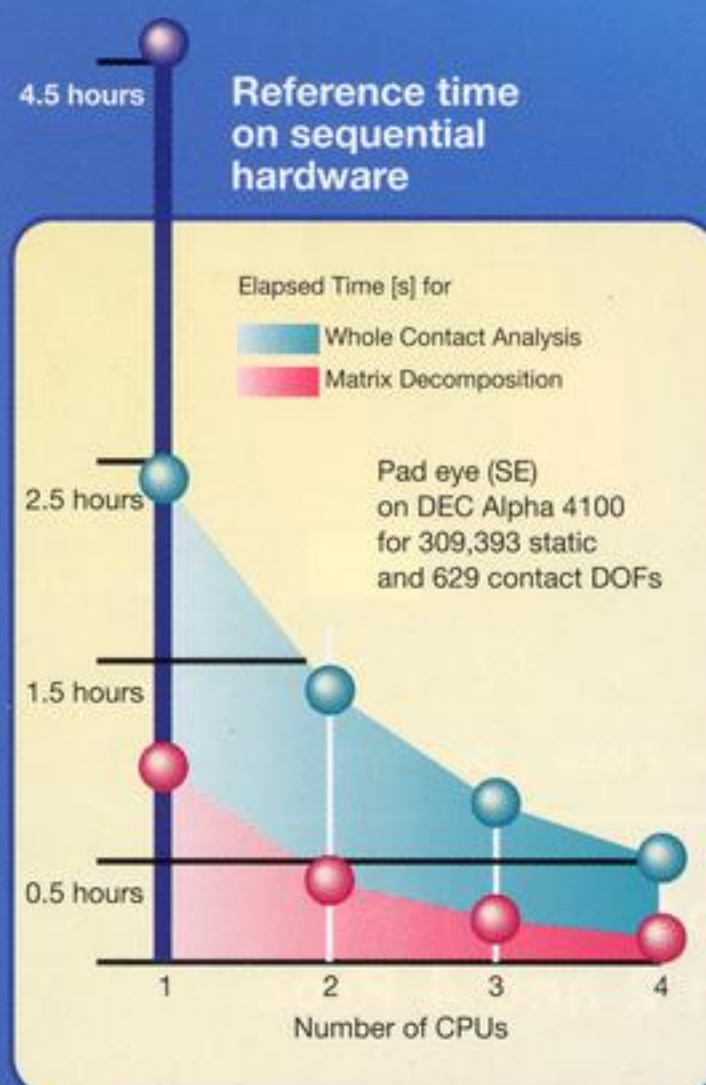
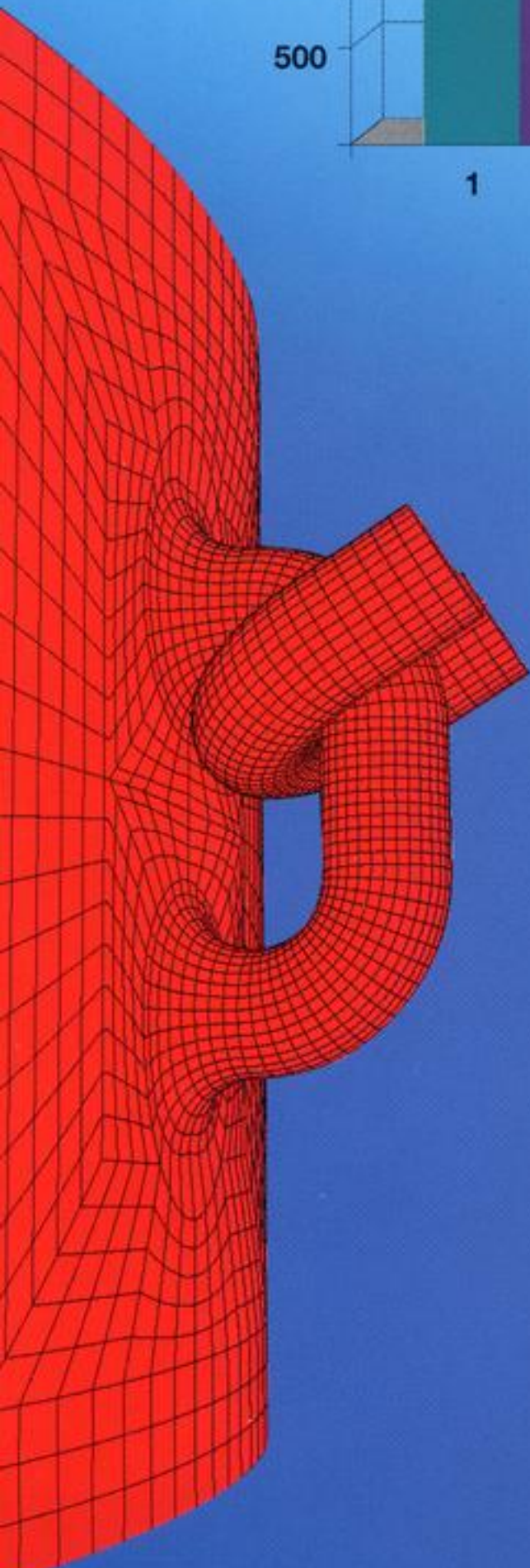
Institut des Recherches  
de la Construction Navale, Nantes

Methan carrier on SGI Origin 2000  
with 48,000 degrees of freedom  
to calculate 300 dynamic modes (on loaded machine)



Structural Engineering A.S., Oslo

Pad eye on DEC Alpha 4100  
with 309,000 degrees of freedom and  
600 contacts (on loaded machine)



More information  
on PERMAS can be  
obtained from...

INTES GmbH  
Schulze-Delitzsch-Str. 16  
D-70565 Stuttgart  
Tel. +49-711-78499-0  
Fax +49-711-78499-10  
E-mail: info@intes.de  
<http://www.intes.de>