

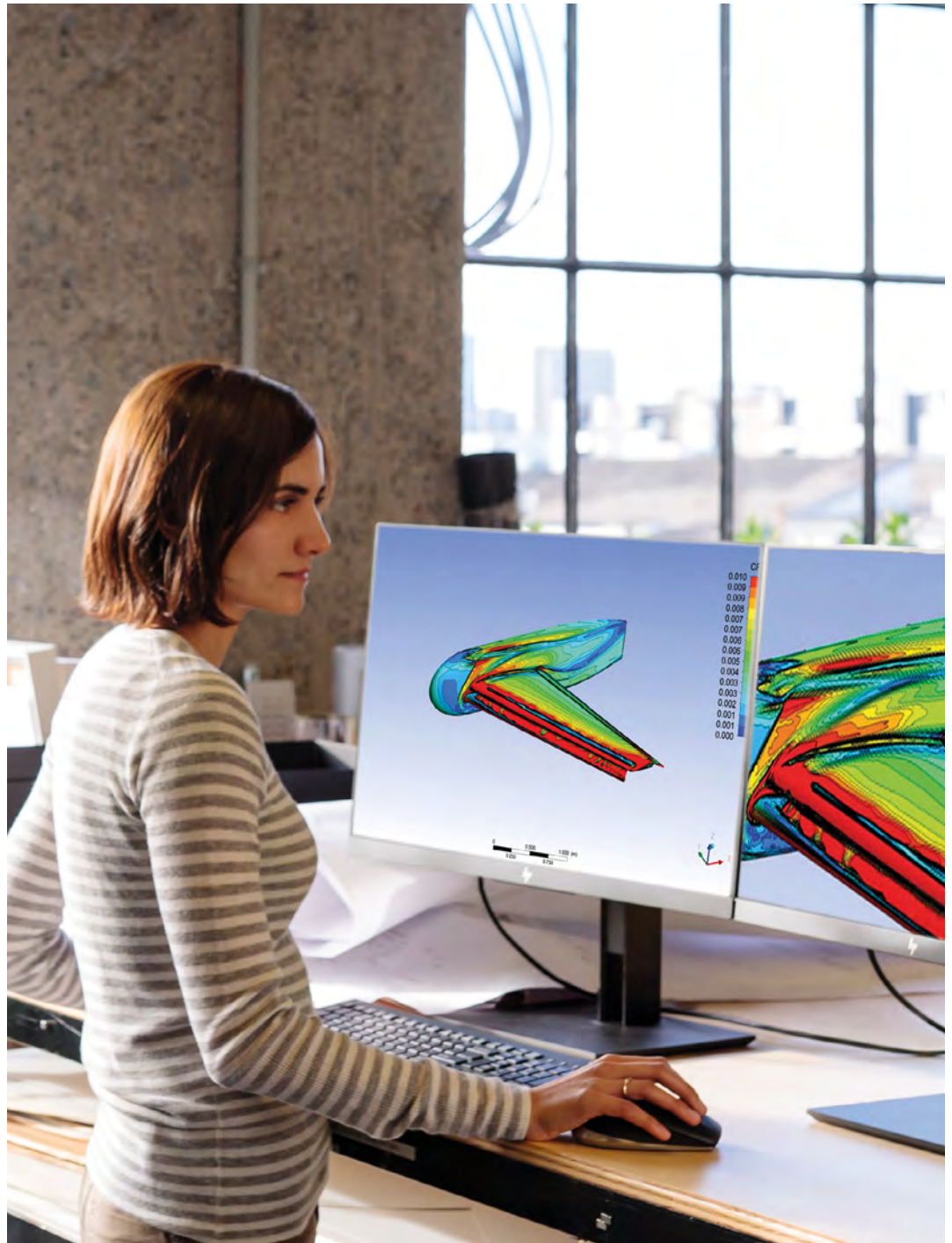


TECHNICAL WHITEPAPER

CONTENTS & NAVIGATION

2

Simulation – ANSYS Mechanical,
Fluent, CFX, HFSS, Maxwell



SIMULATION -
ANSYS MECHANICAL,
FLUENT, CFX, HFSS,
MAXWELL

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Simulation – ANSYS Mechanical,
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HP Z Workstations offer many configurations that are well suited for the ANSYS application suite. The primary decision when choosing a HP Z workstation to run ANSYS is the workstation form factor.

Whether it is:

- Mobile, for on-the go or hybrid in-out office work styles
- Single CPU or dual CPU desktop for local or rack mounted remote computing
- Or a 1U racked workstation

Once the form factor is determined.

The main factors in performance are:

- Number of CPU cores available to the ANSYS solvers¹
- Read-write memory bandwidth between system memory and CPUs
- Memory capacity to allow fully in-core solver computation
- 3D graphics for visualization
- GPU compute and memory capabilities for advanced solver features²
- I/O bandwidth and capacity for file load, save, and matrix out-of-core

SYSTEM RECOMMENDATIONS



Model	HP ZBook G7 Fury 17	HP Z4 G4	HP Z8 G4	HP ZCentral 4R
Form Factor	Mobile	Tower	Tower	1U Rack
CPU	Intel® Core™ i9-10885H 2.4-5.3GHz, 8 core	Intel® Xeon® W-2295 3.0 - 4.8GHz	2x Intel® Xeon® Gold 6246R 3.4 - 4.1GHz	Intel® Xeon® W-2295 3.0 - 4.8GHz
System memory	64 GB 4X16 GB	256 GB 8x32 GB	3844 GB 24x16 GB	256 GB 8x32 GB
3D Graphics	NVIDIA® Quadro RTX™ 3000	NVIDIA® Quadro RTX™ 5000	NVIDIA® Quadro RTX™ 5000	NVIDIA® Quadro RTX™ 5000
GPU Compute	N/A	NVIDIA® Quadro RTX™ 8000	NVIDIA® Quadro RTX™ 8000	NVIDIA® Quadro RTX™ 8000
Out-of-core matrix storage	2X Z Turbo 1 TB RAID-0	4X Z Turbo 2 TB RAID-0	4X Z Turbo 2 TB RAID-0	4X Z Turbo 2 TB RAID-0

For additional information visit www.hp.com/z

¹ Your ANSYS license determines how many solver threads can be utilized.

² Check ANSYS documentation for the solvers optimized for GPU compute.

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