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For
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Of A Novel**

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various HPC
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knowledge no
detailed results
about
scalability for
such types of
simulations with
OpenFOAM in the

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context of HPC
Simulations Of A
do exist. From
Naval
previous
profiling work
done for
OpenFOAM it is
known that I/O
operations and
metadata
handling can
become a
limiting factor
with respect to
scalability (see

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[3] and [4]). In
Simulations Of A
this work we
Novel

Direct numerical
simulation of
turbulent non-
Newtonian ...

OpenFOAM

Conjugate Heat
Transfer.

General

enhancements and
rationalisation
of the OpenFOAM

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user environment
Simulations Of A
for heat
transfer
applications,
and CHT in
particular.
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the keywords
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Parallel HPC
Scalability.

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Continuously
improving HPC A
scalability for
message passing
and parallel
I/O.

(PDF)

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Scalability of
OpenFOAM with

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Large Eddy
Simulations and
DNS on High-
Performance
Systems.

Abstract.

OpenFOAM (Open
Field Operation
and
Manipulation) is
a complete open-
source framework
for the solution
of Partial

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Openfoam For
Differential
Equations (PDE)
using the Finite
Volume Method.

OpenFOAM®
Community
Projects
About OpenFOAM.
OpenFOAM is the
free, open
source CFD
software
developed

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Openfoam For
primarily by
OpenCFD Ltd
since 2004. It
has a large user
base across most
areas of
engineering and
science, from
both commercial
and academic
organisations.

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Simulations Of A
Novel

Scalability of
OpenFOAM with
Large Eddy
Simulations and
DNS on HPC
Systems 3 in
larger and small
scales via: $f = f' + f_0$; (1)
where the prime
denotes the

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Scalability Of
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small scales and
the overbar the
larger ones.

(PDF) Scalable
coupled
simulations with
OpenFOAM and
other ...

“The POC proved
very successful
and the data
showed excellent
scalability

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Scalability Of
Openfoam For
running ANSYS
Simulations Of A
CFD up to 1024
Nodal
cores.” Over the
past several
months we have
worked closely
with the CFD
Solver team at
ANSYS to make
sure ANSYS CFD
code runs
successfully on
Azure Linux RDMA
stack and scales

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Openfoam For
up to thousands
of cores.
Novel

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Simulations and
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Simulations of a
Novel
Electromagnetic
Stirrer for

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Scalability Of
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Steel Casting
Simulations Of A
Novel
Isabella Mazza 1
1*, Ahmet Duran
2 2 & , Yakup
Hundur 3 3 # ,
Cristiano Persi
1 , Andrea
Santoro 1 ,
Mehmet

Scalability of
OpenFOAM for
Simulations of a
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Scalability Of

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Scalability of
Simulations Of A
OpenFOAM for Bio-
medical Flow
Simulations

Ahmet Duran a,b

*, M. Serdar

Celebi a,c ,

Senol Piskin a,c

, and Mehmet

Tuncel a,c a

Istanbul

Technical

University,

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for High
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Computing of
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Turkey

„Fluid-Structure
Simulations with
OpenFOAM for
Aircraft ...
The OpenFOAM
simulation
environment

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allows parallel
computation in
the field of
fluid dynamics
without
additional
license cost due
to its open
source nature.
As such,
efficient
parallelization
is of high
interest since

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Openfoam For
Simulations Of A
New

the number of
processor can be
used to perform
a given
numerical
simulation is
restricted only
by the available
infrastructure.

Fluid Structure
Simulations with
OpenFOAM for
Aircraft Designs

Read Online Scalability Of

Openfoam For
Simulations Of A

In terms of
parallel
scalability,
OpenFOAM, scales
very well from 8
to 512 CPUs, but
the intranode
scalability from
1 to 8 CPUs is
quite poor
(interestingly,
this is also the
case for Semtex,
although it is a

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Scalability Of
Openfoam For
Simulations Of A
Naval
little better,
4.4 vs 2.4 see
Tables 6 and 7) .

An optimum
parallel
efficiency of
46.8% is
achieved with
OpenFOAM when
using 128 CPUs
and ...

World-class HPC
on demand, Azure

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Scalability Of
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allows you to
simulate ... A

Abstract. We study a bio-medical fluid flow simulation using the incompressible, laminar OpenFOAM flow solver icoFoam using iterative linear equation solver and direct

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solvers (kernel
class) such as
SuperLU_DIST 3.3
and SuperLU_MCDT
(Many-Core
Distributed) for
the large penta-
diagonal and
hepta-diagonal
matrices coming
from the
simulation of
blood flow in
arteries with a

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structured mesh
Simulations Of A
domain.
Novel

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Openfoam For
Simulations
6 Scalability of
OpenFOAM with
Large Eddy
Simulations and
DNS on HPC
Systems. just a
brief

Read Online
Scalability Of
Openfoam For
visualization of
the flow results
is given in
Figure 3a) in
terms of SGS
and. b) Line
Integral
Convolution
(LIC)
visualization of
the velocity
field U .

ANSYS CFD and

Page 30/39

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Scalability Of
Openfoam For
Microsoft Azure
perform best HPC
scalability ...
OpenFOAM and
mesh import:
-For real
industrial
applications
•Better import
tools are needed
and •OpenFOAM's
high mesh
quality
requirements may

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Simulations Of A
be a further
obstacle.

Scalability of
OpenFOAM: -A
severe
scalability
bottleneck has
been identified
-Using
MPI_Alltoall for
message size
exchange
•Significantly
improves

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Openfoam For
scalability
Simulations Of A

OpenFOAM® -

Official home of
The Open Source
Computational

...

You may want to
run lots of
computations,
such as a
parameter study
or Monte-Carlo
run. Running a

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high-performance
Simulations Of A
computing
simulation that
needs high-
bandwidth, low-
latency (< 3
microsecond)
supercomputer
networking to
scale to
hundreds of
cores is
uniquely
possible on

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Microsoft Azure.
Simulations Of A

(PDF) Paper:

Scalability of
OpenFOAM for Bio-
medical Flow ...

Scalable coupled
simulations with
OpenFOAM and
other solvers.

Coupling
OpenFOAM solvers
and external
solvers for

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Conjugate Heat
Simulations Of A
Transfer, Fluid-
Structure
Interaction, and
other problem
types using the
free/open-source
coupling library
preCICE.

Scalability of
OpenFOAM for Bio-
medical Flow
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Paper:
Scalability of

OpenFOAM for Bio-

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Isabella Mazza 1

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