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to accelerate

the scientific
discovery by
providing high
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resources, data
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services related
to high-
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Undertaking
The European
Fusion community
has used
dedicated HPC
facilities since
2009, with HPC-
FF : a
multiprocessor
Intel ® Xeon
Nehalem EP™
cluster of 100
TFlops of peak
power and

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Infiniband QDR

low latency

network, in

operation until

2013 at Jülich

Supercomputing

Centre, followed

by Helios: a

supercomputer

with a

performance of 2

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consisting in an

Intel Xeon Sandy-

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bridge EP™

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EPSRC website
Computing
research found
that while a
high proportion
of IT decision
makers (29 per
cent) have 100

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per cent on-
premise HPC
infrastructure,
there is an
almost identical
number of IT
decision makers
...

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Computing -
Computing &
Information ...
High performance

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computing (HPC)
is a necessary

component of
modern

astrophysics

research. MKI

has used 3 HPC

clusters over

the past decade.

The first

cluster has been

used by the

Chandra space

telescope for

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data analysis
and modeling
associated with
the HETG
instrument
contract. It was
retired in
October 2013.

What Is High
Performance
Computing (HPC)?
- Intel
Sierra. Sierra,

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Livermore's latest advanced technology high performance computing system, joined LLNL's lineup of supercomputers in 2018. The new system provides computational resources that are essential for nuclear

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weapon

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scientists to
fulfill the
National Nuclear
Security
Administration's
stockpile
stewardship
mission through
simulation in
lieu of
underground
testing.

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High performance
computing |

Cineca

QStar Solutions
for High
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Computing allow
you to implement
massive storage
hybrid systems
at very
competitive
costs compared
to traditional

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storage products
available today.

Our HPC storage
solutions can
help you manage
the escalating
data capacities
and complexities
created by data-
intensive
applications
such as
simulation and
modeling,

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combined with the most popular HPC file systems.

High performance computing for fusion - ITER
High performance computing (HPC) is one of the most essential tools fueling the advancement

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of science. By leveraging GPU-powered parallel processing across multiple compute nodes, it can run advanced, large-scale application programs efficiently, reliably, and quickly.

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Excellence in
Computationally
Intensive
Research (N8
CIR). N8 High
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Computing (N8
HPC) provided

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academic and industry researchers with access to a high performance computing facility alongside support and expertise to make the most of the opportunities provided by this

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technology..

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Based at the
University of
Leeds and run
jointly with the
...

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The computing
power of HPC-FF,
for High

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Computer For
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Fusion, is a
valuable new
tool for plasma
physicists.

Modelling
requires
extensive
computer
resources;
increasingly
realistic
simulations that

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are able to take
into account the
full ITER
plasma—and not
just a part—will
accelerate
fusion research,
and pave the way
for optimum
operation of
ITER.

**What Is High-
Performance**

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Computing (HPC) ?
How It Works ...

Fusion PPT has released a white paper discussing High Performance Computing (HPC). As an established leader in system integration services, Fusion PPT pulled together a team

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of in-house HPC industry experts to leverage their experience with HPC environments.

Genci:

Optimizing HPC applications on Arm - HPC blog

...

This call is for researchers to

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apply for computational resource from EPSRC funded High Performance Computing (HPC) services to support research projects from across EPSRC's remit. It is the successor to the ARCHER RAP and Tier-2 Open

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access calls
which ran prior
to 2020.

Projects can run
for up to one
year (service
dependent). On
average, this
call runs twice
a year.

MARCONI-FUSION:
The new high
performance

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computing ...

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Wayne State

University

Computing &

Information

Technology

manages High

Performance

Computing (HPC),

or the Wayne

State Grid. This

system is

designed for big

data projects,

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offering central
ly-managed and
scalable
computing
capable of
housing and
managing
research
projects
involving high-
speed
computation,
data management,
parallel and

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distributed computing, grid computing and other ...

Has high performance computing (HPC) reached a cloud ...

We have helped a wide range of customers around the world of

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High-Performance
Computing (HPC)

and related
areas such as
cloud computing
and machine
learning by
providing
training and
tutorials, multi-
year
professional
services
contracts,

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benchmarking
services,

focused

consulting

projects,

impartial

procurement

expertise,

strategic and

technical

advice, and

more.

High Performance

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Products and

Solutions |

NVIDIA

High-performance computing (HPC) is the ability to process data and perform complex calculations at high speeds. To put it into perspective, a

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laptop or
desktop with a 3
GHz processor
can perform
around 3 billion
calculations per
second.

High Performance
Computing (HPC)
| Oracle

The procurement
contract of a
new petascale

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EuroHPC

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supercomputer

has been signed
by the European
High Performance
Computing Joint
Undertaking
(EuroHPC JU),

the

IT4Innovations

National

Supercomputing

Centre at VSB -

the Technical

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University of
Ostrava, the
hosting entity,
and the selected
vendor, Hewlett
Packard
Enterprise.

HPC - High
Performance
Computing System
- QStar
Technologies
Co-authored with

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Christelle
Piechurski

(Genci), Laurent
Nguyen (CEA) and
Cyril Mazauric
(Atos). About
Genci. GENCI
(Grand

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National du
Calcul Intensif)
is the French
High-Performance
Computing (HPC)

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National Agency
in charge of

promoting and
acquiring HPC,
Artificial
Intelligence
(AI)
capabilities,
and massive data
storage
resources.

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Kavli Institute

With solutions specifically tuned for high performance computing (HPC), enterprises can make discoveries that transform business.

Whether run within a single system or across multiple

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systems, on-
premises, or

augmented with
the cloud, HPC
is more
accessible than
ever before.

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Performance
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Research
Partnership
The majority of

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high performance
computing

systems still
run on-premises
in customer
managed data
centers with
high capital
costs. Cloud-
based options
have
historically
been limited, as
early cloud-

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based HPC services relied on extremely expensive flash memory and heavy cache architectures that supported narrow use cases.

HPC - High Performance Computing,

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Computing Hpc
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Supercomputing &
Cloud

BeoShock High
Performance
Computing (HPC)
Wichita State
University's new
high-performance
computing
cluster will
help
researchers,
instructors and
staff who have c

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ompute-intensive
jobs to process.
The new HPC
cluster is named
"BeoShock" after
"Beowulf"
cluster and
Shockers.

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