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# Parallel Computing Opensees

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Models for Parallel  
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Computing is  
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Present, Parallel An  
Introduction to  
Parallel  
Programming

*Page 1/42*

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~~Displacement~~

~~Based Beam~~

~~Column Elements~~

~~Calibration of~~

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~~Element Nonlinear~~

~~Property~~

~~(OpenSees~~

~~Navigator Example)~~

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Example (OpenSees

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Database, sendSelf

and receiveSelf

Commands Python

Multiprocessing

Tutorial: Run Code



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in Parallel Using the  
Multiprocessing  
Module OpenSees  
BuildingTclViewer  
Release 1.9 -- Part  
1 (old) Day 2: (10)  
Fluid Structure  
Interaction and  
Python Scripting  
Capabilities in  
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OpenSees: Getting  
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Model definition  
Parallel Computing:  
Its Opportunities  
and Challenges  
Basic Reliability  
Analysis Using  
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Visualization with

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~~ParaView | David  
DeMarle, Kitware,  
Inc. WEBINAR~~

~~What's New in  
DesignSafe,  
September 12,  
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Parallel computation  
is becoming  
increasingly  
important for

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Computing

conducting realistic  
earthquake

simulations of  
structural and  
geotechnical

systems. With the  
advent of multi-core  
processors it is  
rapidly becoming  
the only means  
available for users  
to harness the full  
performance of

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even their personal  
computers.

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Parallel Computing  
Frank McKenna UC  
Berkeley OpenSees  
Parallel Workshop  
Berkeley, CA.

Overview

- Introduction to  
Parallel Computers
- Parallel  
Programming

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Models • Race  
Conditions and  
Deadlock Problems

- Performance

Limits with Parallel  
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- Writing Parallel  
Programs.

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computing effort  
Pre/Post-  
processing tools

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development

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implements parallel

computational

methodology

designed for

efficient and

scalable

computations with

inelastic (elastic-

plastic) finite

element on

distributed memory

parallel computers

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The parallel-  
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environment in  
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the "Single Parallel  
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application or  
OpenSeesSP [44],  
is em- ployed to



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speed up the execution time of analyses. Parallel Computing Opensees - wakati.co The parallel material is represented graphically: In a parallel model, strains are equal and stresses and stiffnesses are additive: Code

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Developed by: fmk.

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The parallel  
OpenSeesPy is  
similar to

OpenSeesMP, which  
requires users to  
divide the model to  
distributed  
processors. You can  
still run the single-  
processor version  
as before. To run  
the parallel version,  
you have to install a  
MPI

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## Parallel

implementation,  
such as mpich.

Then call your  
python scripts in  
the command line.

### 11. Parallel

#### Commands —

OpenSeesPy 3.2.2.6  
documentation

Therefore, a  
parallel-computing  
environment in  
OpenSees, namely

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## Parallel

the "Single Parallel Interpreter" application or OpenSeesSP, is employed to speed up the execution time of analyses. The system...

Using the OpenSees Interpreter on Parallel Computers

...

4 OpenSeesSP: The  
*Page 23/42*

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## Parallel

Computing OpenSees

Parallel Interpreter

The simple parallel

interpreter is

intended for the

single analysis of

very large models.

When running on a

parallel machine, a

single processor,

p0, is running the

main interpreter

and processing

commands from the



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## Parallel

main input script.

The other  
processors are  
running

ActorSubdomain  
objects [4].

TN-2007-16 Using  
the OpenSees  
Interpreter on  
Parallel ...

The parallel  
material is  
represented

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graphically: In a parallel model, strains are equal and stresses and stiffnesses are additive: Code

Developed by: fmk.

Images Developed by: Silvia Mazzoni.

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OpenSees Parallel

computing is a type

of computation in

which many

calculations or the

execution of

processes are

carried out

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Computing  
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simultaneously.

Large problems can often be divided into smaller ones, which can then be solved at the same time.

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Interpreters

– OpenSeesSP: An

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## Parallel

Computing application for large models which will parse and execute the exact same script as the sequential application. The difference being the element state determination and equation solving are done in parallel.

– OpenSeesMP: An application for

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BOTH large models  
and parameter  
studies.

OpenSeesSP:

Overview - [opensees](https://opensees.berkeley.edu)  
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Parallel computing

is a type of

computation in

which many

calculations or the

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## Parallel

execution of  
processes are  
carried out

simultaneously.

Large problems can often be divided into smaller ones, which can then be solved at the same time. There are several different forms of parallel computing: bit-level,

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3. References ¶ . If you want to understand the design behind OpenSees you can look at the following: For the

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overall framework

have a look at:

McKenna, F.

“ Object-oriented  
finite element  
programming:  
Frameworks for  
analysis, algorithms  
and parallel  
computing. ” PhD  
Dissertation, UC  
Berkeley, 1999

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interpreter intended

for high

performance

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performing finite element simulations of very large models on parallel machines.

OpenSeesSP is easy to use even with limited knowledge about parallel computing. It only requires minimal changes to input scripts to make them

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consistent with the  
parallel process  
logic.

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[0817b2a03e10336](#)