

# ~~10~~ Tips for Simulator Software Configuration Management

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**ONTARIO** **POWER**  
GENERATION

# CONFIG CONTROL: WHY?

Performance.

Perception.

MYTH: IT'S MORE WORK

FACT: It saves you time.

ONE

Following the correct process  
should also be the easiest path.

TWO

record all the work you do\*

\* That is, write a work request for every last thing.

THREE

define your business rules

FOUR

categorize your work: flexibly

caution: your categories may change

FIVE

Always know what software you have



SIX

define build sources and targets

"sources" > just models

SEVEN

config control all sources

don't forget data files

# EIGHT

test and release software

don't patch\*

\* unless is really easy and safe\*\* but still document stuff, okay?

\*\* seriously: don't make a habit of it.

# NINE

the same sources:  
should always run the same

if it doesn't, something's broken

TEN

config control one symbolic IC,  
generate the rest with scripts

anything else becomes chaos

# ELEVEN

have a release process

define your tests, log the results

scan results for errors electronically

# Ontario Power Generation Solution

## Work Management

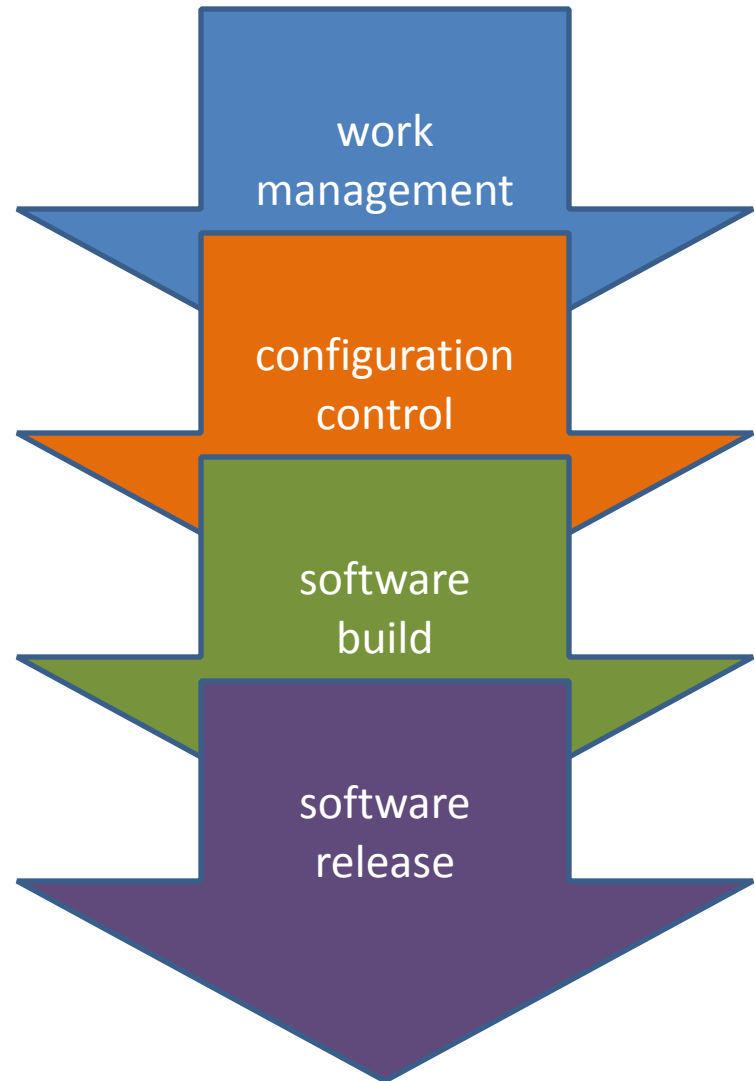
web based system

Perl

developed 1996-

Custom written

Easily modified



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## Software Config Management

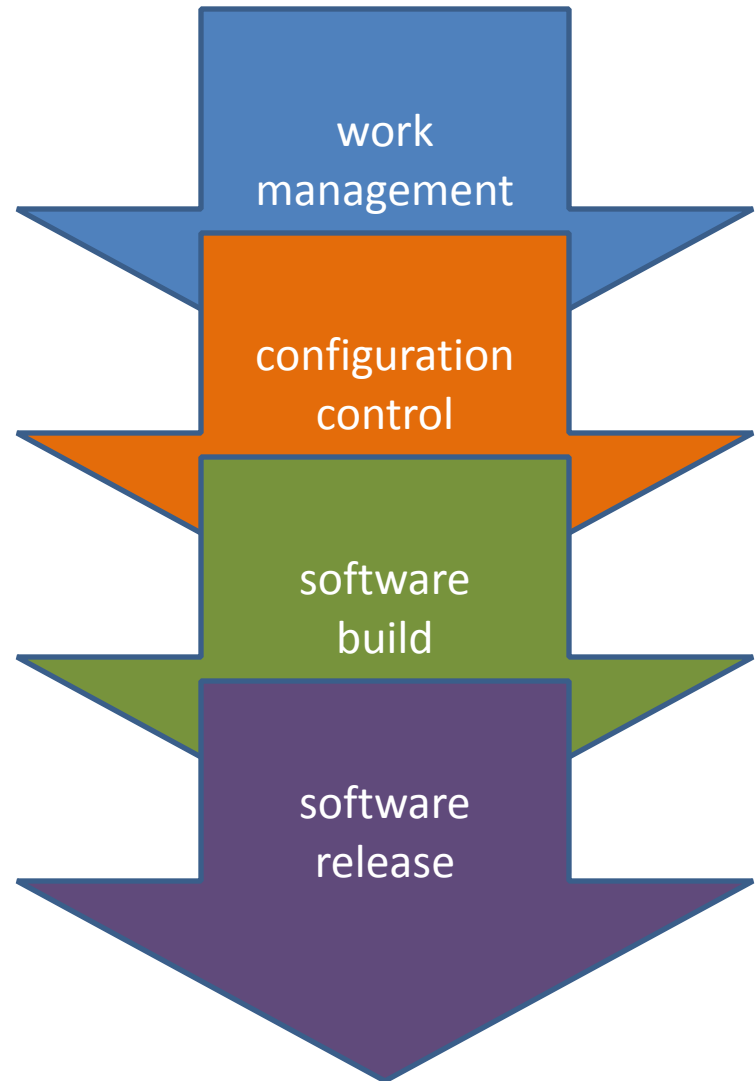
Perforce

(Commercial)

Very robust

Some learning curve

Many free alternatives  
now!





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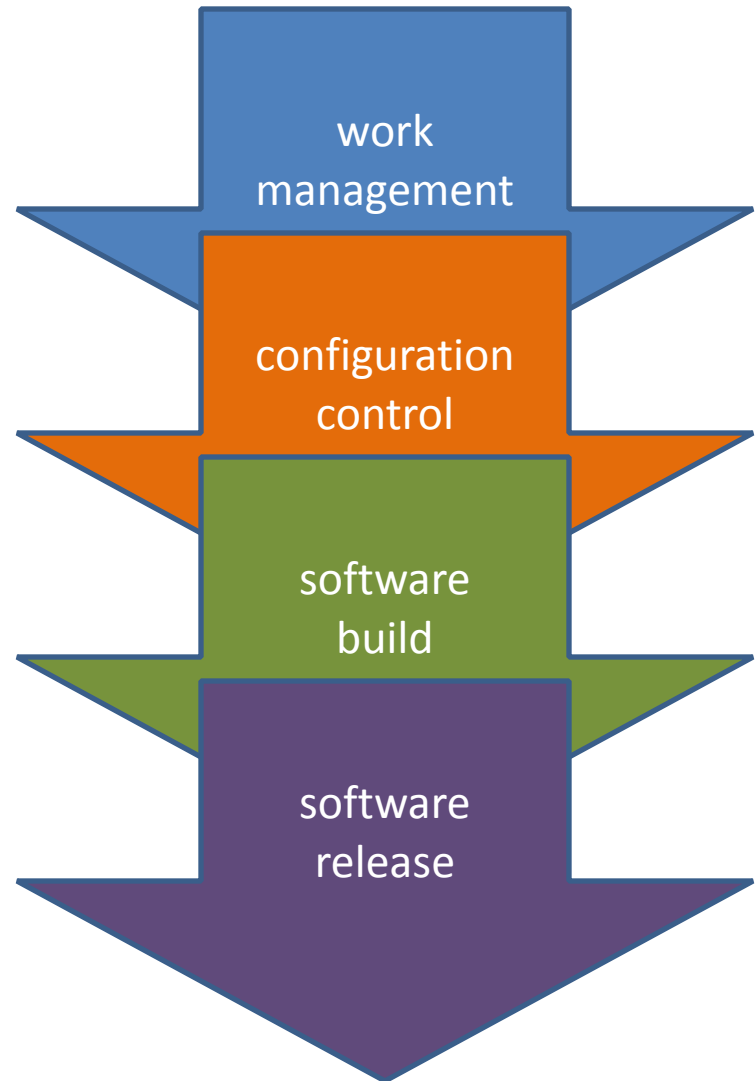
"simbuild"

Perl

Iteratively runs

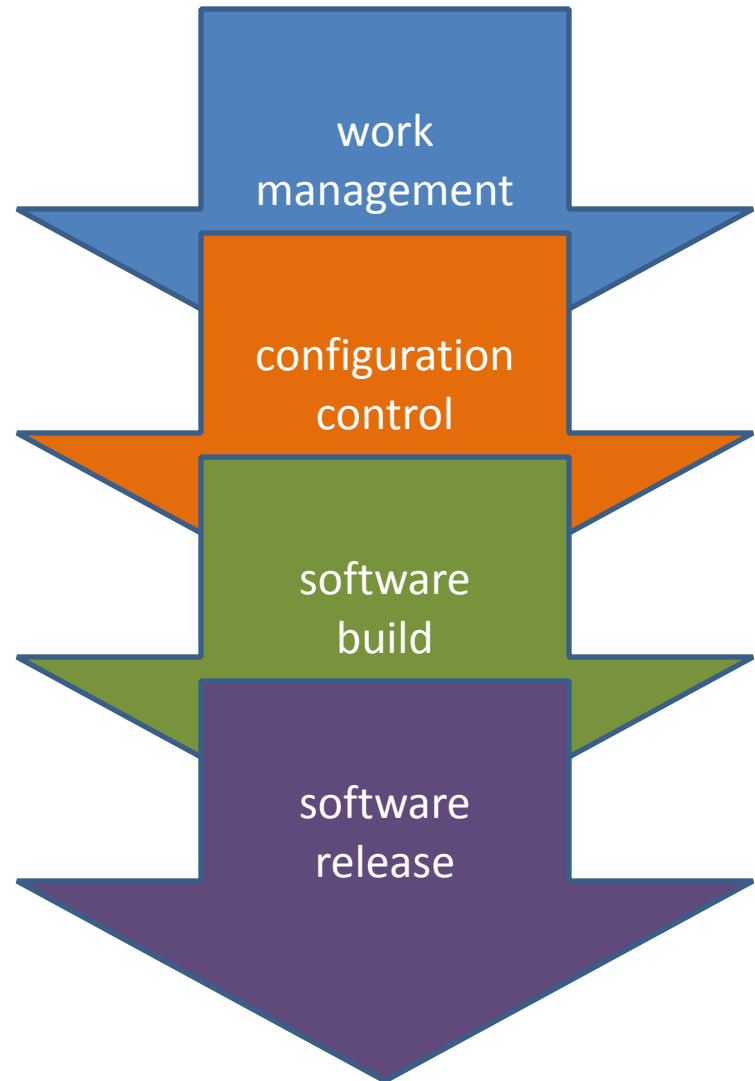
Makefiles with  
progressive  
targets

"Blank disk  
builds"



# Ontario Power Generation Solution

formal releases  
auto-IC generation  
data collection  
auto result  
comparison  
release  
documentation



Questions?

You are invited to come to Toronto  
for an industry peer visit.