



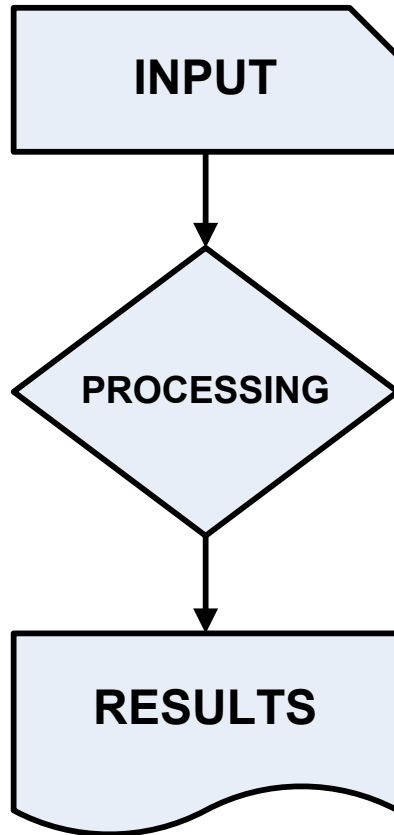
SCIENCE = DATA

**Why Optimizing Your Workflow and Data Management on SciNet
Enables More and Better Science, With a Bird's-Eye View of How
To Achieve This Based on Several Successful Use-Cases, and
Including The Possible Use of HPSS for Big Data.**

SNUG

Sep/12/2012

NEED TO ANSWER ALL THESE QUESTIONS



LOCATION (PATH) ?

FORMAT (ASCII, binary, tarball, gzip'ed) ?

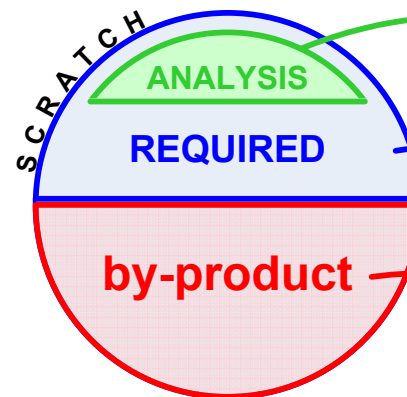
AMOUNT (TB, # of Files, # of directories) ?

RATE (MB/s, IOPs) ?

RESOURCES (# of CPUs/Nodes, Modules) ?

SCHEDULE (walltime, checkpoints) ?

LOCATION, FORMAT, AMOUNT, RATE?



HPSS and/or project (tarball)

HPSS (tarball)

Immediate deletion

**UNIT OF COMPUTATION
OR SIMULATION?**

Month?

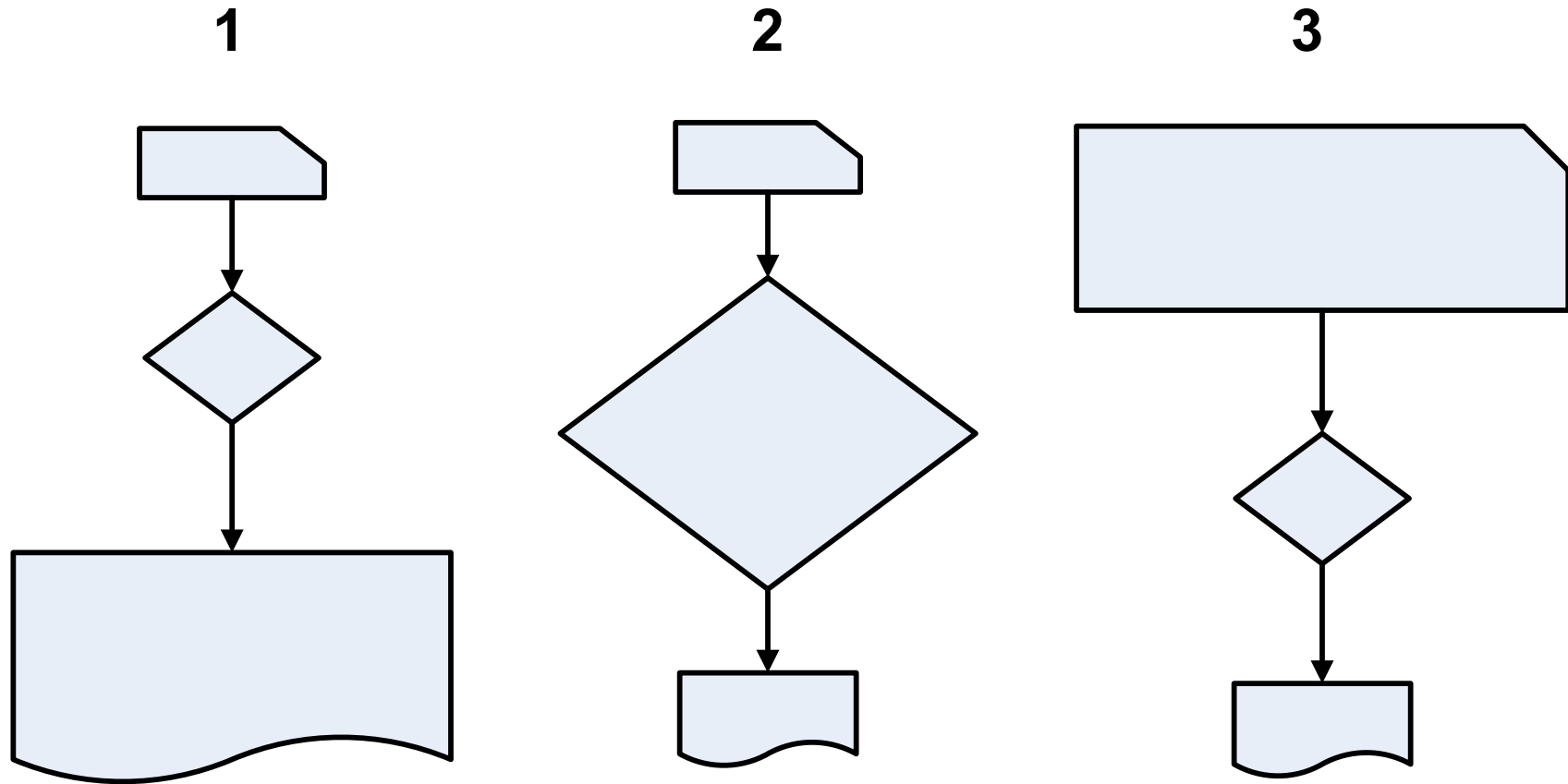
Cell?

Tree node?

Sample?

AWARENESS OF THE WEIGHT OF EACH COMPONENT

SCENARIOS

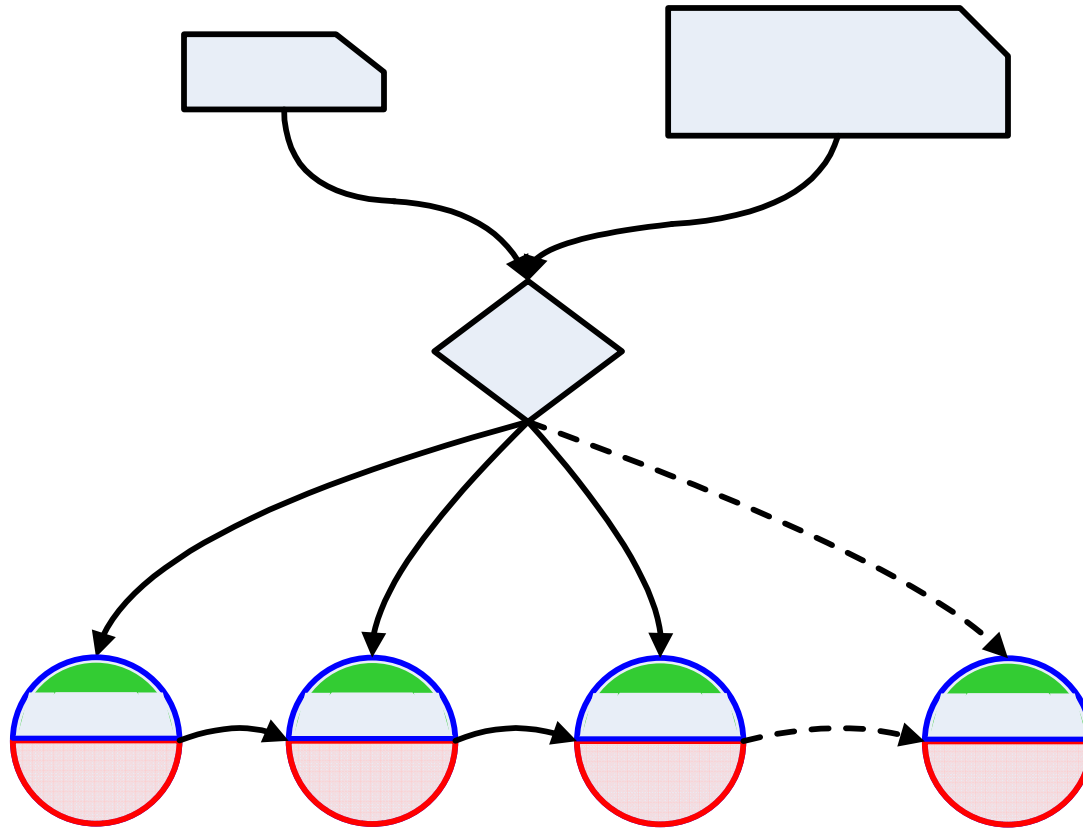


TIME-tax vs. STORAGE-tax ?

Redundancies and inefficiencies within the group ?

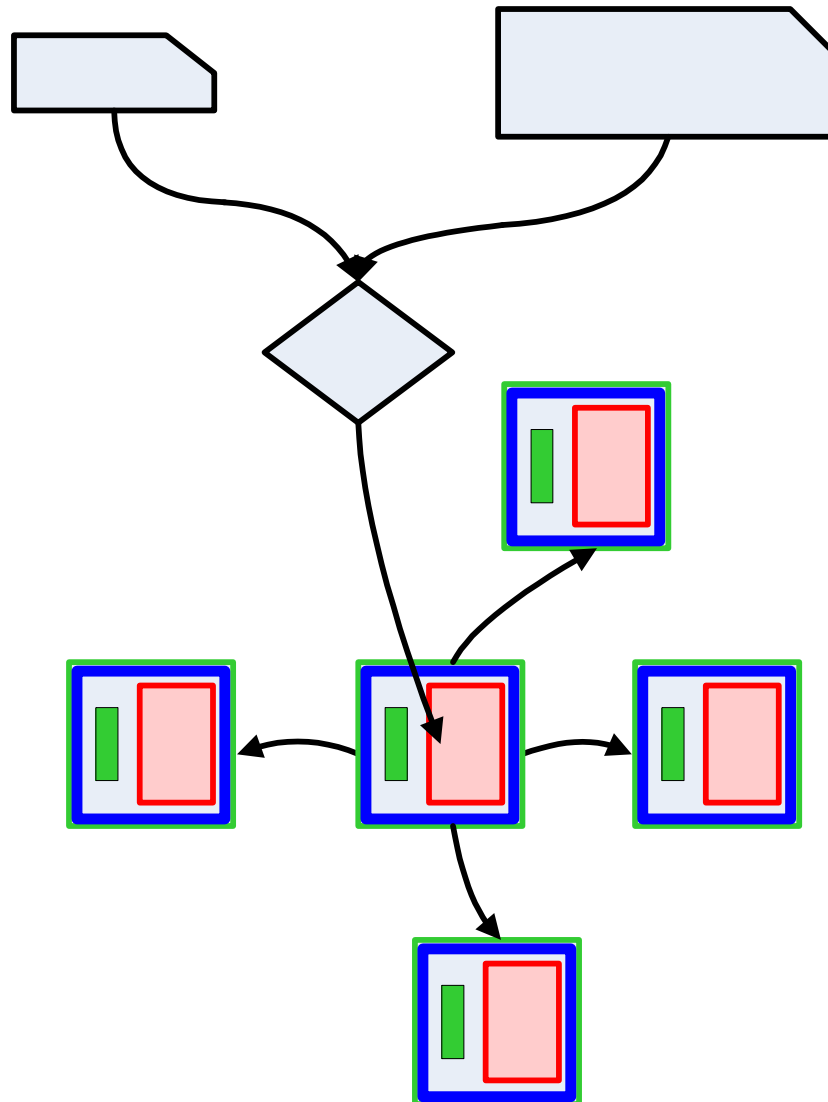
CASE STUDY 1

Sequential dependency



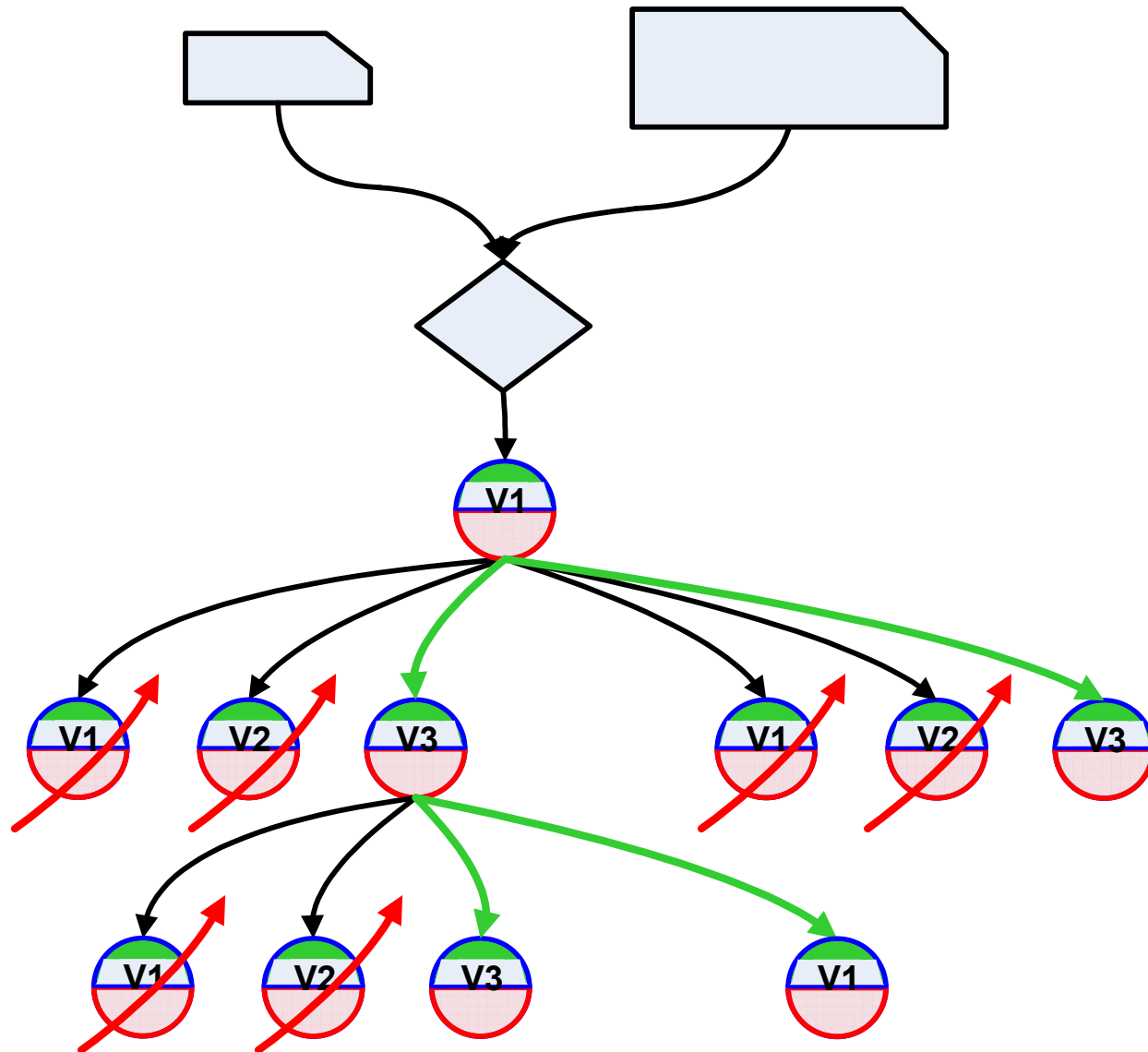
CASE STUDY 2

Boundary dependency



CASE STUDY 3

Unit refinement



CASE STUDY 4

Sampling

