Strategic Airlift – Model

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# Overview

This guide was developed for users to explore the strategic airlift model independently of dependencies and additional features that were developed as part of Sim Manager. The experiments referenced in this guide were created using the XML parsing process, however the user will be unable to see the results visualized on a map or experience the XML process executing. If you would like to see and explore these features, please refer to the quick start or installation guide for how to setup the software.

For further detail about the model, please refer to the final paper, or the quick start guide.

# Run Model Procedure

1. Copy the [StratAirliftParsed] folder from the [Documentation] folder to the Cadmium [DEVS-Models] folder.
2. From the bash prompt in the [StratAirliftParsed] folder execute ‘make all’. This command will compile and execute all the experiments. If you only want to compile the experiments, you can use the ‘make compile’ command or to run all the experiments after they have been compiled you can use the ‘make run’ command.
3. The output from each experiment is in its associated experiment folder. For example, the output from Cold Lake v1 is in [experiments/ColdLakev1].
4. Please refer to the expected results section below to verify everything executed as expected.

# Expected Results

|  |  |  |
| --- | --- | --- |
| **Experiment** | **Verification Log File** | **Last Time** |
| ABP | Experiments/ABP/messages.txt | 00:21:48:000 |
| Strat Airlift Test | Experiments/StratAirliftTest/ stratairliftstates.txt | 4305 |
| Base | Experiments/Base/ stratairliftstates.txt | 36864 |
| Cold Lake v1 | Experiments/ColdLakev1/ stratairliftstates.txt | 33971 |
| Cold Lake v2 | Experiments/ColdLakev2/ stratairliftstates.txt | 32523 |
| Cold Lake v3 | Experiments/ColdLakev3/ stratairliftstates.txt | 20296 |
| Yellowknife | Experiments/Yellowknife/ stratairliftstates.txt | 18296 |
| Cambridge Bay | Experiments/CambridgeBay/ stratairliftstates.txt | 18170 |