# Debugging complex programs made easier with Machetli



888 V 🦉 Machetli searches through the space of Easily task modifications to find a smaller task Extendable (\*DDL. tex where the bug persists.

# EXAMPLE

1. Install

pip install machetli

### 2. Reproduce Bug

from machetli import pddl, tools

def evaluate(state):

with pddl.temporary\_files(state) as (dom, prob): command = ["./bugged-planner/plan", dom, prob] run = tools.Run(command) rdent = the statement ()

stdout, stderr, returncode = run.start()

return "Wrong task encoding" in stdout

## 3. Search

from machetli import pddl, search

# 4. Enjoy

The resulting

Search

in paralle

on a grid

task is small

enough to

debug.

Starting search ... Removed action 'down'. Remaining actions: 3 Removed object 'p4'. Remaining objects: 20 Removed object 'p2'. Remaining objects: 19

Removed object 'f1'. Remaining objects: 2 No improving successor found, terminating search.



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