Planner Description
This abstract describes the “Kronk” planner that participated in the Sparkle Planning Challenge 2019. Kronk is built on top of the Fast Downward planning system (Helmert 2006) and runs the first iteration of the LAMA configuration (Richter and Westphal 2010) with a few modifications:

• Kronk uses the Python interpreter PyPy instead of CPython.
• Kronk uses at most 10 seconds for invariant synthesis during the translation phase from PDDL to SAS+ (Helmert 2009).
• Kronk prunes irrelevant operators after the translation phase for at most 10 seconds (Alcázar and Torralba 2015).
• Kronk uses an additional type-based open list with the type $(h^F, g)$ (Xie et al. 2014).

Planner Name
Kronk is the name of the charming henchman from the animated comedy film “The Emperor’s New Groove”, a movie that features many llamas.

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References