

MCS Project: Parts 2 and 3

Warehouse Robots

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Design decisions

Part 2: Modelling the dynamic system in IDP

We have introduced one new function symbol: *heightOf*. This function maps each pallet onto a height. We have chosen the height of pallets on the floor to be 1, as they are one pallet high.

heightOf is defined inductively. We state that a pallet on the floor (which has no pallet below it and is not being carried,) has a height of 1. If a pallet is on top of another pallet, it's height is one higher.

Our time spend on this part of this project is about four hours. Most of the time was spent on rewriting statements. Each of the staments in our final solution is explained by a comment.