Complex, no optimization

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| --- | --- | --- | --- | --- |
|  | **Drools** | | **Jess** | |
| Model | Translation time | Reasoning time | Translation time | Reasoning time |
| M1 | - | - | 0.53 | 25.2 |
| M2 | 0.09 | 5.1 | 0.091 | 0.745 |
| M3 | 0.007 | 1.52 | 0.037 | 0.097 |
| M4 | 0.006 | 1.2 | 0.027 | 0.063 |

Simple, no optimization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Drools** | | **Jess** | |
| Model | Translation time | Reasoning time | Translation time | Reasoning time |
| M1 | - |  | 0.49 | 17.67 |
| M2 | 0.07 | 3.67 | 0.066 | 0.521 |
| M3 | 0.014 | 1.42 | 0.046 | 0.09 |
| M4 | 0.005 | 1.1 | 0.023 | 0.036 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Size | Constraints | Size to constraint ratio | Type definitions |
| M1 | 10000 | 1000 | 10 : 1 | - |
| M2 | 1000 | 100 | 10 : 1 | - |
| M3 | 100 | 10 | 10 : 1 | - |
| M4 | 10 | 1 | 10 : 1 | - |

With advanced optimization, Drools class breakdown to 200, Complexity -complex

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Drools** | | **Jess** | |
| Model | Translation time | Reasoning time | Translation time | Reasoning time |
| M1 | 2.8 | 20.2 | 0.5 | 23.2 |
| M2 | 0.075 | 4.69 | 0.06 | 0.651 |
| M3 | 0.009 | 1.61 | 0.02 | 0.1 |
| M4 | 0.007 | 1.2 | 0.03 | 0.03 |

With advanced optimization, Drools class breakdown to 200, complexity - simple

|  |  |  |  |  |
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|  | **Drools** | | **Jess** | |
| Model | Translation time | Reasoning time | Translation time | Reasoning time |
| M1 | 2.8 | 15.67 | 0.46 | 17.81 |
| M2 | 0.065 | 3.57 | 0.09 | 0.6 |
| M3 | 0.009 | 1.55 | 0.02 | 0.09 |
| M4 | 0.006 | 1.2 | 0.02 | 0.035 |