

# Bank Choose shaft method Data Flow Diagram

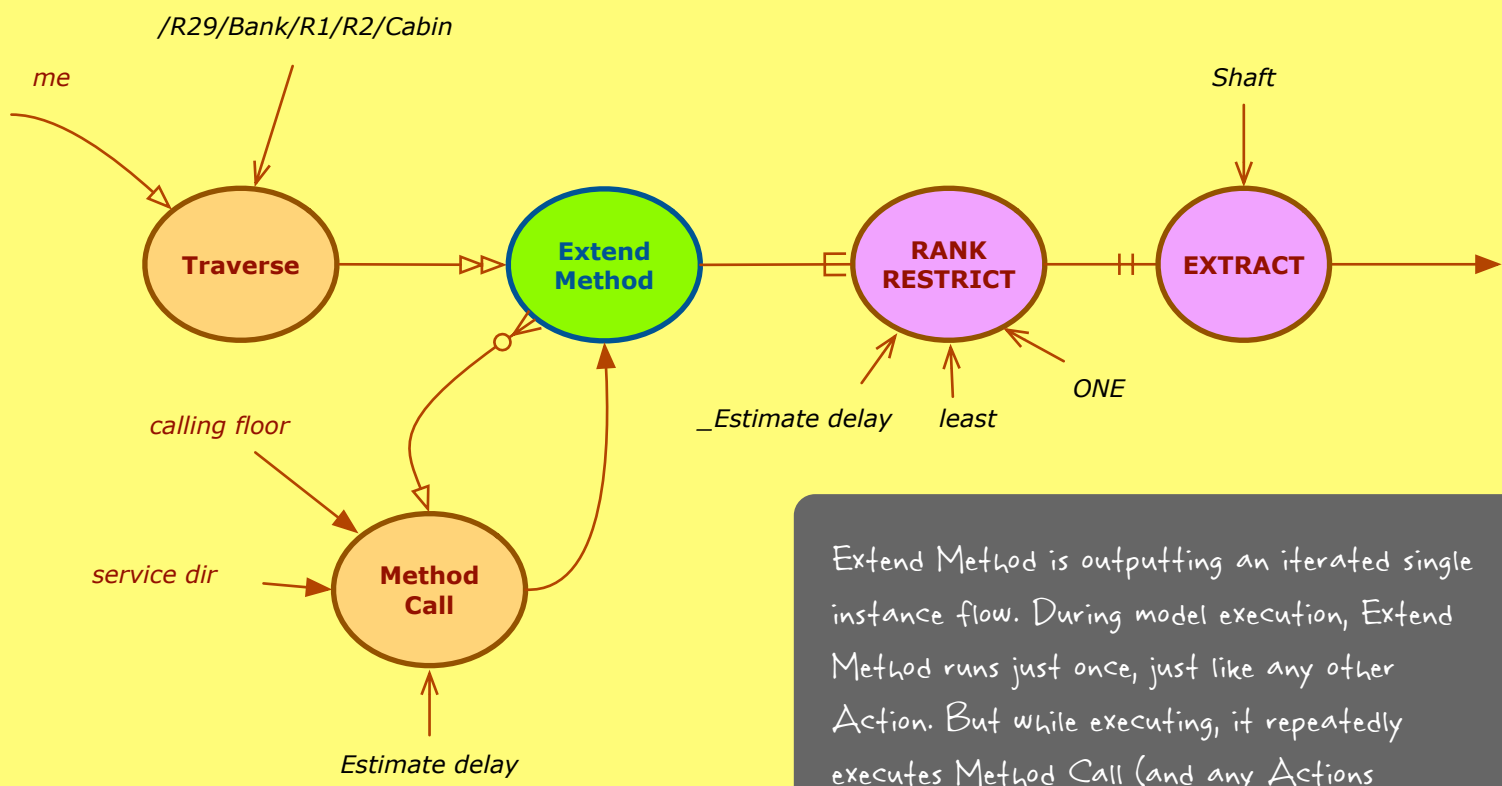
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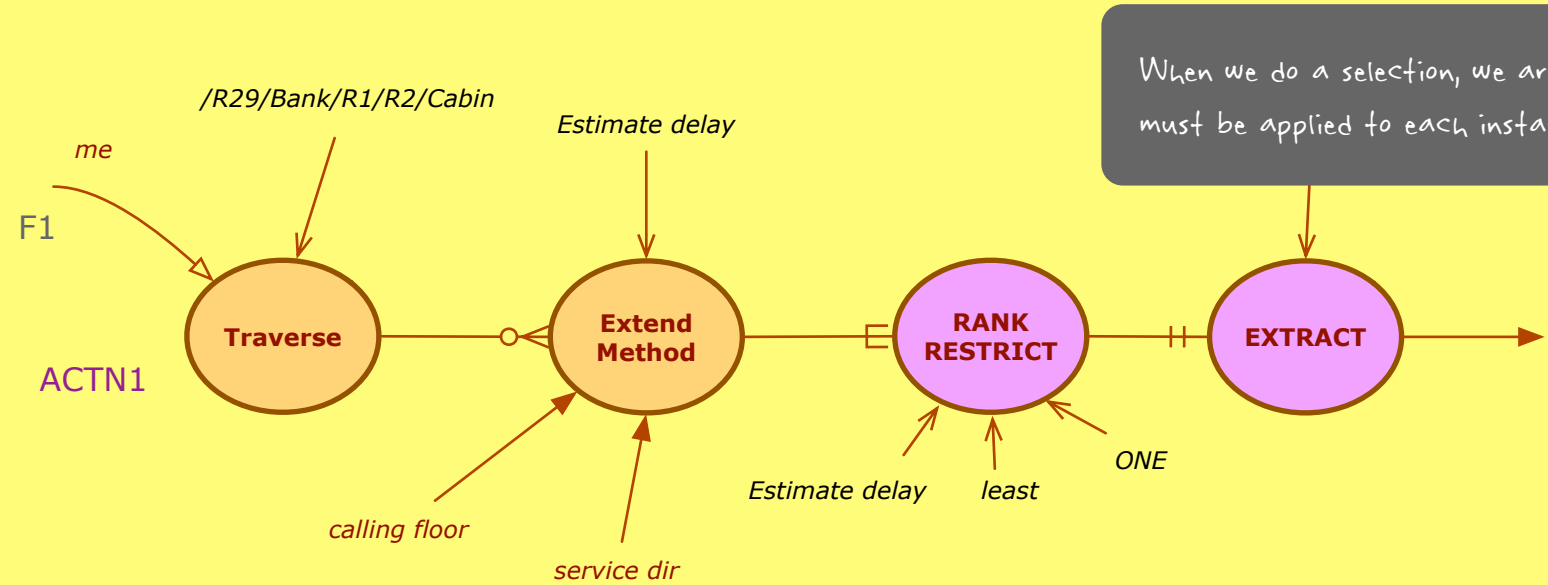
MODEL INTEGRATION, LLC

```
=>> /R29/Bank/R1/R2/Cabin(1, ^-.Estimate delay( ^calling floor, ^service dir ) ).Shaft
```



Extend Method is outputting an iterated single instance flow. During model execution, Extend Method runs just once, just like any other Action. But while executing, it repeatedly executes Method Call (and any Actions downstream from Method Call). This means that the iterated flow into Method Call is reset each time Method Call completes and re-enabled with new input. Method Call can execute once per renabled input.

```
=>> /R29/Bank/R1/R2/Cabin(1, ^-.Estimate delay( ^calling floor, ^service dir ) ).Shaft
```



When we do a selection, we are actually just specifying a boolean expression that must be applied to each instance or tuple of the input.

During model execution, we execute a DFD. So ultimately, we need to populate whatever it takes to get that graph.

The selection phrase consists of a cardinality (1, \*) and an optional boolean expression. That boolean expression consists of multiple operands.

If a Method Call has many input ->>, it is invoked separately for each instance in the input yielding a single result.

So the Extend Method action is applied to each instance operating on any supplied attribute or flows.

Now if we see a type operation

If we apply a method within a select, we need to do the extend before we perform any other comparisons. If there are multiple methods, they all get executed to create virtual attributes. Same with type operations. So all methods must yield a scalar or tuple (multiple scalars) which extend the class into a table. Only after we do that do we select.