The formal definition of any machine

The general formula of any machine of function `f` is :

```
p=i; while(a){p=f(p,x);}
```

- `f`: function of the machine
- `p`: present state
- `x`: unpredictable input
- `i`: initial state
- `a`: activated

When `a=0` the machine ends working.
The state of the present state `p` represents the variables which are part of the machine.
For a machine which can stop working by itself `a` has to be member of `p`.
Otherwise, `a` is a member of `x` and thus completely unpredictable.
At each start the initial state `i` will be applied again.
`x` and `p` have bound sizes and form the domain of the function `f`.
`f` and `i` are sufficient to define the machine.
`f(p,x)` is the next state which becomes the present state `p`.

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