

An Event-B Specification of P0
Creation Date: 16 Mar 2011 @ 02:30:52 PM

```
MACHINE P0
SEES Word
VARIABLES
    result
INVARIANTS
    inv1 : result ∈ 0 .. 1
EVENTS
Initialisation
begin
    act1 : result := 0
end
Event pal ≡
when
    grd1 : ∀i·i ∈ 1 .. n ⇒ w(i) = w(n + 1 - i)
then
    act1 : result := 1
end
Event nopal ≡
any
    i
    j
where
    grd1 : i ∈ 1 .. n
    grd2 : j + i = n + 1
    grd3 : w(i) ≠ w(j)
then
    skip
end
END
```