proc ralentizar (inout $r$: $reunion$, in $prof$: $\mathbb{Z}$, in $freq$: $\mathbb{Z}$) {
  Pre {$esReunión Válida Aux(r, prof, freq) \wedge r_0 = r$}
  Post {
    $|r| = |r_0| \wedge_L$
      $lasSeñalesTienenElDobleDeMuestras(r, r_0) \wedge_L$
      $promedioEntrePares(r, r_0)$
  }
}

pred lasSeñalesTienenElDobleDeMuestras ($r$: $reunion$, $r_v$: $reunion$) {
  $(\forall i : \mathbb{Z})\ 0 \leq i < |r_v| \ \longrightarrow_L\ (2 \cdot |r_v[i]_0|) = (|r[i]_0| + 1)$
}

pred promedioEntrePares ($r$: $reunion$, $r_v$: $reunion$) {
  $(\forall i : \mathbb{Z})\ 0 \leq i < |r| \ \longrightarrow_L$ (
    $(\exists j : \mathbb{Z})\ 0 \leq j < |r_v| \ \wedge_L (\ r[i]_1 = r_v[j]_1\ ) \wedge_L$ (
      $(\forall q : \mathbb{Z})\ 0 \leq q < |r[i]_0| \ \longrightarrow_L$
        if $esPar(q)$ then $r[i]_0[q] = r_v[j]_0[\frac{q}{2}]$ else $r[i]_0[q] = \frac{r_v[j]_0[\frac{q-1}{2}] + r_v[j]_0[\frac{q+1}{2}]}{2}$ fi ) )
}