fischer-delay[11,40]

fischer-delay{i:l,
$x:ut2,
$try:ut2,
$taken:ut2,
$contending:ut2,
$free:ut2,
$mine:ut2,
$wanted:ut2,
$z:ut2}
(es; del; L)
$\equiv_{\text{def}}$ $\forall e$:es-E(es).
(loc(e) $\in L$)
$\Rightarrow$ (((@e(mkid{$x:ut2}$\rightarrow$mkid{$try:ut2}) $\vee$ @e(mkid{$x:ut2}$\rightarrow$mkid{$taken:ut2}))
$\Rightarrow$ (((es-when(es; mkid{$x:ut2}; e) = mkid{$free:ut2})
$\Rightarrow$ (mkid{$x:ut2} unchanged-for del @ e))
$\wedge$ ((es-when(es; mkid{$x:ut2}; e) = mkid{$contending:ut2})
$\Rightarrow$ (mkid{$x:ut2} unchanged-for 2 $*$ del @ e))))
$\wedge$ (@e(mkid{$x:ut2}$\rightarrow$mkid{$mine:ut2}) $\Rightarrow$ (mkid{$x:ut2} unchanged-for 2 $*$ del @ e))
$\wedge$ (((((es-when(es; mkid{$x:ut2}; e) = mkid{$contending:ut2})
$\wedge$ (mkid{$x:ut2} unchanged-for 2 $*$ del @ e))
$\vee$ ((es-when(es; mkid{$x:ut2}; e) = mkid{$free:ut2})
$\wedge$ (mkid{$x:ut2} unchanged-for del @ e)))
$\wedge$ ((↑es-isrcv(es; e))
c$\wedge$ ((es-tag(es; e) = mkid{$wanted:ut2})
$\wedge$ ($\exists i$:Id. (($i \in L$) $\wedge$ (es-lnk(es; e) = <i, loc(e), mkid{$z:ut2}>))))))
$\Rightarrow$ @e(mkid{$x:ut2}$\rightarrow$mkid{$taken:ut2}))
$\wedge$ ((↑es-isrcv(es; e))
$\Rightarrow$ ((es-tag(es; e) = mkid{$free:ut2}) $\vee$ (es-tag(es; e) = mkid{$wanted:ut2}))
$\Rightarrow$ ($\exists i$:Id
(($i \in L$) $\wedge$ ($\neg$(i = loc(e))) $\wedge$ (es-lnk(es; e) = <i, loc(e), mkid{$z:ut2}>)))
$\Rightarrow$ qless(es-time(es; e); (es-time(es; es-sender(es; e)) + del))))

clarification:

fischer-delay{i:l,
$x:ut2,
$try:ut2,
$taken:ut2,
$contending:ut2,
$free:ut2,
$mine:ut2,
$wanted:ut2,

$z:ut2}
(*es*; *del*; *L*)

$\equiv_{\text{def}}$ $\forall e$:es-E(*es*).
(es-loc(*es*; *e*) $\in L \in$ Id)
$\Rightarrow$ (((es-change-to(*es*;Id;mkid{$x:ut2};*e*;mkid{$try:ut2})
$\vee$ es-change-to(*es*;Id;mkid{$x:ut2};*e*;mkid{$taken:ut2}))
$\Rightarrow$ (((es-when(*es*; mkid{$x:ut2}; *e*) = mkid{$free:ut2} $\in$ Id)
$\Rightarrow$ unchanged-for{i:l}
(Id; id-deq; *es*; mkid{$x:ut2}; *del*; *e*))
$\wedge$ ((es-when(*es*; mkid{$x:ut2}; *e*) = mkid{$contending:ut2} $\in$ Id)
$\Rightarrow$ unchanged-for{i:l}
(Id; id-deq; *es*; mkid{$x:ut2}; (2 $*$ *del*); *e*))))
$\wedge$ (es-change-to(*es*;Id;mkid{$x:ut2};*e*;mkid{$mine:ut2})
$\Rightarrow$ unchanged-for{i:l}
(Id; id-deq; *es*; mkid{$x:ut2}; (2 $*$ *del*); *e*))
$\wedge$ (((((es-when(*es*; mkid{$x:ut2}; *e*) = mkid{$contending:ut2} $\in$ Id)
$\wedge$ unchanged-for{i:l}
(Id; id-deq; *es*; mkid{$x:ut2}; (2 $*$ *del*); *e*))
$\vee$ ((es-when(*es*; mkid{$x:ut2}; *e*) = mkid{$free:ut2} $\in$ Id)
$\wedge$ unchanged-for{i:l}
(Id; id-deq; *es*; mkid{$x:ut2}; *del*; *e*)))
$\wedge$ ((↑es-isrcv(*es*; *e*))
c$\wedge$ ((es-tag(*es*; *e*) = mkid{$wanted:ut2} $\in$ Id)
$\wedge$ ($\exists i$:Id
(($i \in L \in$ Id)
$\wedge$ (es-lnk(*es*; *e*) = <*i*, es-loc(*es*; *e*), mkid{$z:ut2}> $\in$ IdLnk))))))
$\Rightarrow$ es-change-to(*es*;Id;mkid{$x:ut2};*e*;mkid{$taken:ut2}))
$\wedge$ ((↑es-isrcv(*es*; *e*))
$\Rightarrow$ ((es-tag(*es*; *e*) = mkid{$free:ut2} $\in$ Id)
$\vee$ (es-tag(*es*; *e*) = mkid{$wanted:ut2} $\in$ Id))
$\Rightarrow$ ($\exists i$:Id
(($i \in L \in$ Id)
$\wedge$ ($\neg$(i = es-loc(*es*; *e*) $\in$ Id))
$\wedge$ (es-lnk(*es*; *e*) = <*i*, es-loc(*es*; *e*), mkid{$z:ut2}> $\in$ IdLnk)))
$\Rightarrow$ qless(es-time(*es*; *e*); (es-time(*es*; es-sender(*es*; *e*)) + *del*))))

http://www.nuprl.org/FDLcontent/p0_963683_/p74_572156_{fischer-delay}.html