valid-sys[11,40]

valid-sys(es;$Config$;Sys;e)
$\equiv_{\text{def}}$ chain_sys_ind($Sys(e)$;x.$\exists c{<}e.(\uparrow(c \in_b \ Config))$ & $(\uparrow$cchead?$(Config(c)))$
& $\exists c{<}e.(\uparrow(c \in_b \ Config))$
& $((\uparrow$cctail?$(Config(c)))$ $\vee$ $(\uparrow$ccsucc?$(Config(c))))$;i,xs.$\exists c{<}e.(\uparrow(c \in_b \ Config))$
& $(\uparrow$ccpred?$(Config(c)))$
& ccpred-id$(Config(c)) = i$
& $(\forall e'{<}e.\ (c$ <loc $e') \Rightarrow (\neg((\uparrow(e' \in_b \ Config))$ & $(\uparrow$ccpred?$(Config(e')))))))$

clarification:

valid-sys(es;$Config$;Sys;e)
$\equiv_{\text{def}}$ chain_sys_ind($Sys(e)$;x.existse-before(es;e;c.$(\uparrow(c \in_b \ Config))$
& $(\uparrow$cchead?$(Config(c))))$
& existse-before(es;e;c.$(\uparrow(c \in_b \ Config))$
& $((\uparrow$cctail?$(Config(c)))$
$\vee$ $(\uparrow$ccsucc?$(Config(c)))))$;i,xs.existse-before(es;e;c.$(\uparrow(c \in_b \ Config))$
& $(\uparrow$ccpred?$(Config(c)))$
& ccpred-id$(Config(c)) = i \in$ Id
& alle-lt(es;e;e'.es-locl(es; c; e')
$\Rightarrow (\neg((\uparrow(e' \in_b \ Config))$ & $(\uparrow$ccpred?$(Config(e'))))))))$

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http://www.nuprl.org/FDLcontent/p0_963683_/p0_592125_{valid-sys}.html