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#!/usr/local/bin/perl5 -w

$input = 'chaintest.scan';
$output= "OUT.out";

open (INFILE,$input)||die "cannot open $input";
open(OUTFILE,">$output")||die "canoot\n";

#####
$/=" ";
$ct_scanout = 0;

while (<INFILE>) {
    chomp;
    last if /^SCAN_CELLS/;
    $seen_CHAIN_TEST=1 if /CHAIN_TEST/;
    next unless /apply/ && $seen_CHAIN_TEST;

    $ct_scanout = 1 if /apply\s*"grp[0-9]_unload"/;
    while (<INFILE>) {
        chomp;
        if (/\\bend\\b/) {
            &printout;
            last;
        }
        next unless /\t*chain\s+"chain([0-9])"/;
        $chain[$1] = cleanup($_);
    }
}

sub printout {
    if ($ct_scanout ) {
        for ($i=0;$i<@{$chain[3]};$i++){
            for (@chain) {
                $_->[$i] =~ s/0/L/g;
                $_->[$i] =~ s/1/H/g;
            }
            my @chars = map $_->[$i], @chain;
            print OUTFILE "\n(ct_so\n", join("", @chars), "\n )";
        }
        $ct_scanout=0;
    } elsif ($ct_scanout==0) {
        for ($i=0;$i<@{$chain[3]};$i++) {
            for (@chain) {
                $_->[$i] =~ s/X/0/g;
            }
            my @chars = map $_->[$i], @chain;
            print OUTFILE "\n(ct_si $ct_si{tdi}\n", join("", @chars), "\n )";
        }
    }
}

sub cleanup {
    local $_ = shift;
    s/.*/s/;
    tr/01X//cd;
    return [ split // ]
}

```