

```

1  #!/usr/local/bin/perl5 -w
2
3  $input1 = 'chaintest.scan';
4  $output= "OUT";
5  $output2= "OUT.out";
6
7  open (INFILE,$input1)||die "cannot open $input1";
8  open(OUTFILE,">$output")||die "cannot\n";
9  open(OUTFILE2,">$output2")||die "cannot\n";
10
11 #####
12 &preprocess;
13 open (INFILE2,$output)||die "cannot open $input1";
14 $/= " ";
15 $ct_scanout = 0;
16 while (<INFILE2>) {
17     chomp;
18     $ct_scanout = 1 if (/apply\s*"grp[0-9]_unload"/);
19     $chain_test=1 if (/CHAIN_TEST/);
20
21     if ((/\t*chain\s*"chain([0-9])"/) && ($chain_test)){
22         $chain_number = $1;
23         &cleanup;
24         $chain_input = (split /=/,$_)[1];
25         $chain_input =~ tr/"//d;
26         $chain[$chain_number] = [split //, $chain_input];
27         &printout if $chain_number == 7;
28     }
29 }
30
31 sub printout {
32     if ($ct_scanout ){
33         for ($i=0;$i<@{$chain[3]};$i++){
34             for (@chain) {
35                 $_->[$i] =~ s/0/L/g;
36                 $_->[$i] =~ s/1/H/g;
37             }
38             my @chars = map $_->[$i], @chain;
39             print OUTFILE2 "\n(ct_so\n", join(" ", @chars), "\n )";
40         }
41         $ct_scanout=0;
42     } elsif ($ct_scanout==0) {
43         for ($i=0;$i<@{$chain[3]};$i++) {
44             for (@chain) {
45                 $_->[$i] =~ s/X/0/g;
46             }
47             my @chars = map $_->[$i], @chain;
48             print OUTFILE2 "\n(ct_si $ct_si{tdi}\n", join(" ", @chars), "
\n )";
49         }
50     }
51 }
52
53 sub cleanup {
54     s/^\s+|\s*\n+$/ /g;
55     tr/\t //d;
56     s/\n//g;
57     s/\\//g;
58 }
59
60 sub preprocess {
61     while (<INFILE>){
62         chomp;
63         s/$/;/g if (/apply/);
64         print OUTFILE ("$_\n");
65         last if ( /^SCAN_CELLS/);

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66     }  
67     close OUTFILE;  
68 }
```