apachelog.pql by _{Pequel}

sample@youraddress.com

Apache CLF Log Input Example Script

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SCRIPT NAME

apachelog.pql

DESCRIPTION

Demonstrates reading Apache CLF Log file — split record on space delimiter parse qouted fields and square bracketed fields. This is done by 1) specifying a space delimiter for the 'input_delimiter' and 2) specifying a double qoute (must be escaped) characted and a open square bracket character for the 'input_delimiter_extra' option. This option specifies other characters that may delimit fields. Pequel will match open bracket character specfication with their respective closing bracket. Requires Inline::C and a C compiler to be installed because the 'input_delimiter_extra' option will instruct Pequel to generate C code.

1. PROCESS DETAILS

Input records are read from standard input. The input record contains **6** fields. Fields are delimited by the ''character.

Output records are written to standard output. The output record contains **6** fields. Fields are delimited by the '|' character.

1.1 IP ADDRESS

Output Field

Description

Set to input field IP_ADDRESS

1.2 TIMESTAMP

Output Field

Description

Set to input field TIMESTAMP

1.3 REQUEST

Output Field

Description

Set to input field REQUEST

1.4 *F4*

Output Field

Description

Set to input field F4

1.5 *F5*

Output Field

Description

Set to input field F5

1.6 *F6*

Output Field

Description

Set to input field F6

2. CONFIGURATION SETTINGS

2.1 pequeldoc

generate pod / pdf pequel script Reference Guide.: pdf

2.2 detail

Include Pequel Generated Program chapter in Pequeldoc: 1

2.3 script_name

script filename: apachelog.pql

2.4 header

write header record to output.: 1

2.5 optimize

optimize generated code.: 1

2.6 nulls

print zero for null numeric/decimal.: 1

2.7 doc title

document title.: Apache CLF Log Input Example Script

2.8 doc_email

document email entry.: sample@youraddress.com

2.9 doc version

document version for pequel script.: 2.2

2.10 input_delimiter

input file field delimiter:

2.11 input_delimiter_extra

Extra input field delimiter(s): "[

2.12 inline cc

Inline: CC: CC

2.13 inline_optimize

Inline: OPTIMIZE: -xO5 -xinline=%auto

2.14 inline_ccflags

Inline: CCFLAGS: -xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64

3. TABLES

4. TABLE INFORMATION SUMMARY

4.1 Table List Sorted By Table Name

5. APACHELOG.PQL

options

```
pequeldoc(pdf)
detail(1)
script_name(apachelog.pql)
header(1)
optimize(1)
nulls(1)
doc_title(Apache CLF Log Input Example Script)
doc_email(sample@youraddress.com)
doc_version(2.2)
input_delimiter()
input_delimiter_extra("[)
inline_cc(CC)
inline_optimize(-xO5 -xinline=%auto)
inline_ccflags(-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64)
```

description

Demonstrates reading Apache CLF Log file -- split record on space delimiter parse quuted fields and square bracketed fields. This is done by 1) specifying a space delimiter for the 'input_delimiter' and 2) specifying a double qoute (must be escaped) characted and a open square bracket character for the 'input_delimiter_extra' option. This option specifies other characters that may delimit fields. Pequel will match open bracket character specfication with their respective closing bracket.

Requires Inline::C and a C compiler to be installed because the 'input_delimiter_extra' option will instruct Pequel to generate C code.

input section

```
IP_ADDRESS
TIMESTAMP
REQUEST
F4
F5
F6
```

output section

string	IP_ADDRESS	IP_ADDRESS
string	TIMESTAMP	TIMESTAMP
string	REQUEST	REQUEST
string	F4	F4
string	F5	F5
string	F6	F6

6. PEQUEL GENERATED PROGRAM

```
# vim: syntax=perl ts=4 sw=4
#Generated By: pequel Version 2.2-9, Build: Tuesday September 13 08:43:08 BST 2005
            : https://sourceforge.net/projects/pequel/
#Script Name : apachelog.pql
#Created On : Tue Sep 13 10:17:35 2005
#For
#-----
#Options:
#pequeldoc(pdf) generate pod / pdf pequel script Reference Guide.
#detail(1) Include Pequel Generated Program chapter in Pequeldoc
#script_name(apachelog.pql) script filename
#header(1) write header record to output.
#optimize(1) optimize generated code.
#nulls(1) print zero for null numeric/decimal.
#doc_title(Apache CLF Log Input Example Script) document title.
#doc_email(sample@youraddress.com) document email entry.
#doc_version(2.2) document version for pequel script.
#input_delimiter( ) input file field delimiter
#input_delimiter_extra("[) Extra input field delimiter(s)
#inline_cc(CC) Inline: CC
#inline_optimize(-x05 -xinline=%auto) Inline: OPTIMIZE
#inline_ccflags(-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64) Inline: CCFLAGS
use strict;
local $\="\n"; local $,="|";
print STDERR '[apachelog.pql ' . localtime() . "] Init";
use constant VERBOSE => int 10000;
use constant LAST_ICELL => int 5;
my @I VAL;
my @O VAL;
foreach my $f (1..6) { $0_VAL[$f] = undef; }
use constant _I_IP_ADDRESS => int
use constant _I_TIMESTAMP => int
                                     1;
use constant _I_REQUEST
                           => int.
use constant _I_F4
                           => int.
                                     3;
use constant _I_F5
                           => int
                                     4;
use constant _I_F6
                           => int
                                     5;
use constant _O_IP_ADDRESS => int
use constant _O_TIMESTAMP => int
                                     1;
                                     2;
use constant _O_REQUEST
                           => int
                                     3;
                           => int
use constant _O_F4
                                     4;
use constant _O_F5
                           => int
                                     5;
                           => int
use constant _O_F6
                                     6;
&PrintHeader();
print STDERR '[apachelog.pql ' . localtime() . "] Start";
use Benchmark;
my Sbenchmark start = new Benchmark;
print STDERR '[apachelog.pql ' . localtime() . "] Tables opened.";
my $i;
while (readsplit(\@I VAL))
{
    ++$i;
   print STDERR '[apachelog.pql ' . localtime() . "] $i records." if ($i % VERBOSE == 0);
    $0_VAL[_0_IP_ADDRESS] = $I_VAL[_I_IP_ADDRESS];
    $0_VAL[_O_TIMESTAMP] = $I_VAL[_I_TIMESTAMP];
    $O_VAL[_O_REQUEST] = $I_VAL[_I_REQUEST];
    $O_VAL[_O_F4] = $I_VAL[_I_F4];
    $O_VAL[_O_F5] = $I_VAL[_I_F5];
    $O_VAL[_O_F6] = $I_VAL[_I_F6];
   print
       $0_VAL[_O_IP_ADDRESS],
       $O_VAL[_O_TIMESTAMP],
       $0 VAL[ O REQUEST],
       $O_VAL[_O_F4],
       $0_VAL[_0_F5],
       $0_VAL[_0_F6]
}
print STDERR '[apachelog.pql ' . localtime() . "] $i records.";
my $benchmark_end = new Benchmark;
my $benchmark_timediff = timediff($benchmark_start, $benchmark_end);
print STDERR '[apachelog.pql ' . localtime() . "] Code statistics: @{[timestr($benchmark_timediff)]}";
sub PrintHeader
    local \= \n' \
   local $,="|";
   print
```

```
'IP ADDRESS'.
        'TIMESTAMP',
        'REQUEST'.
        'F4',
        'F5',
        'F6'
}
#**** I N L I N E ****
use Inline
   C => Config =>
   NAME => 'apachelog',
    CC => 'CC',
   CLEAN_AFTER_BUILD => '1',
    CLEAN_BUILD_AREA => '1',
   PRINT_INFO => '0',
    BUILD_NOISY => '0',
   BUILD_TIMERS => '0',
    FORCE_BUILD => '0',
   LIBS => ' ',
    INC => ' ',
    CCFLAGS => '-xchip=ultra3 -DSS_64BIT_SERVER -DBIT64 -DMACHINE64 ',
    OPTIMIZE => '-x05 -xinline=%auto
use Inline C => <<'END_OF_C_CODE'
#define GFMAXPIPBUFFER
#define GFMAXPIPFLDS
#define _I_IP_ADDRESS
#define _I_TIMESTAMP
#define _I_REQUEST
#define _I_F4
#define _I_F5
#define _I_F6
static const char *fields[GFMAXPIPFLDS];
int readsplit (SV* I_VAL_ref)
{
   char sql[4096];
    int ret;
   char *pzErrMsg = 0;
    register char *p;
   static char inp[GFMAXPIPBUFFER];
   register AV* I_VAL;
    register int i=0;
    int inside_quotes=0;
   int inside_sqb=0;
    if (!gets(inp) ) return 0;
    if (!SvROK(I_VAL_ref)) croak("I_VAL_ref is not a reference");
    I_VAL = (AV*)SvRV(I_VAL_ref);
   av_clear(I_VAL);
    memset(fields, 0, sizeof(fields));
   p = inp;
    fields[0] = p;
    while (*p)
       if (!inside_quotes && (*p == '[' | | *p == ']')) { inside_sqb = !inside_sqb; } if (!inside_sqb && *p == '"') { inside_quotes = !inside_quotes; }
       if (!inside_quotes && !inside_sqb && *p == ' ')
        {
            *p = ' \setminus 0';
           av_store(I_VAL, i, newSVpvn(fields[i], strlen(fields[i])));
           fields[++i] = p + 1;
        }
       p++;
    }
    av_store(I_VAL, i, newSVpvn(fields[i], strlen(fields[i])));
    while (++i < GFMAXPIPFLDS)
       av_store(I_VAL, i, newSVpvn("", 0));
    int pN;
   return 1;
END_OF_C_CODE
```

7. ABOUT PEQUEL

This document was generated by Pequel.

https://sourceforge.net/projects/pequel/

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