

```
1: #!/usr/bin/perl
2: # $Id: mtime.perl,v 1.1 2018-11-06 18:50:44-08 - - $
3: #
4: # NAME
5: #     older.perl - check whether a pair of files are older or newer
6: #
7: # SYNOPSIS
8: #     older.perl filename...
9: #
10: # DESCRIPTION
11: #     The two files' modification times are compared and a
12: #     relationship is printed.
13: #
14:
15: use strict;
16: use warnings;
17: use POSIX qw(strftime);
18: $0 =~ s|.|/||;
19:
20: sub mtime ($) {
21:     my ($filename) = @_;
22:     my @stat = stat $filename;
23:     return @stat ? $stat[9] : undef;
24: }
25:
26: sub fileinfo ($) {
27:     my ($filename) = @_;
28:     my $mtime = mtime $filename;
29:     print "$filename: ";
30:     if (defined $mtime) {print strftime "%c\n", localtime $mtime}
31:         else {print "$!\n"}
32:     return $mtime;
33: }
34:
35: for my $filename (@ARGV) {
36:     unless (-e $filename) {
37:         printf STDERR "$0: $filename: $!\n";
38:     } else {
39:         my $mtime = mtime $filename;
40:         my $ctime = strftime "%c", localtime $mtime;
41:         printf "%-20s %12d %s\n", $filename, $mtime, $ctime;
42:     }
43: }
44:
```

1: HEADER.html	1581560696	Wed	12	Feb	2020	06:24:56	PM	PST
2: RCS	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
3: graph.output	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
4: graph.perl	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
5: graph.perl.pdf	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
6: graph.perl.ps	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
7: mk	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
8: mtime.output	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
9: mtime.perl	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
10: mtime.perl.pdf	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
11: mtime.perl.ps	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
12: sigtoperl	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
13: sigtoperl.cpp	1581728938	Fri	14	Feb	2020	05:08:58	PM	PST
14: sigtoperl.cpp.pdf	1581728940	Fri	14	Feb	2020	05:09:00	PM	PST
15: sigtoperl.cpp.ps	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
16: sigtoperl.output	1581728939	Fri	14	Feb	2020	05:08:59	PM	PST
17: utime-maxint.txt	2147483647	Mon	18	Jan	2038	07:14:07	PM	PST
18: utime-zero.txt	0	Wed	31	Dec	1969	04:00:00	PM	PST
19: .	1581729075	Fri	14	Feb	2020	05:11:15	PM	PST
20: /dev/null	1581355107	Mon	10	Feb	2020	09:18:27	AM	PST

```
1: #!/bin/sh
2: # $Id: mk,v 1.14 2020-02-14 17:11:15-08 - - $
3:
4: cid + $0
5:
6: cid + graph.perl
7: graph.perl >graph.output 2>&1
8:
9: cid + mtime.perl
10: cp /dev/null utime-zero.txt
11: perl -e 'utime 0, 0, "utime-zero.txt"'
12: cp /dev/null utime-maxint.txt
13: perl -e 'utime 0x7FFFFFFF, 0x7FFFFFFF, "utime-maxint.txt"'
14: mtime.perl * . /dev/null >mtime.output 2>&1
15:
16: cid + sigtoperl.cpp
17: mkc sigtoperl.cpp
18: sigtoperl >sigtoperl.output 2>&1
19:
20: mkpspdf graph.perl.ps graph.perl graph.output
21: mkpspdf mtime.perl.ps mtime.perl mtime.output $0
22: mkpspdf sigtoperl.cpp.ps sigtoperl.cpp sigtoperl.output
23:
```