Chart::Gnuplot

What

```
2008-11-24 00:00:00  1      41   20   2   0   0   0   22   0   3    -   -   -      12   0   3   1   0   126
2008-11-24 00:01:00  1      44   19   3   0   0   0   9    1   4    -   -   -      13   0   4   1   0   119
2008-11-24 00:02:00  1      43   19   2   0   0   0   18   1   3    -   -   -      12   0   3   1   3   128
2008-11-24 00:03:00  1      41   20   3   0   0   0   7    0   3    -   -   -      11   0   3   1   0   110
2008-11-24 00:04:00  1      46   20   11  0   0   0   15   1   22   -   -   -      13   1   3   1   0   154
2008-11-24 00:05:00  1      41   21   3   0   0   0   11   1   4    -   -   -      15   0   4   1   0   123
2008-11-24 00:06:00  1      43   22   3   0   0   0   13   0   3    -   -   -      10   1   4   2   20  142
2008-11-24 00:07:00  1      43   19   2   0   0   0   10   0   4    -   -   -      12   0   4   1   0   116
2008-11-24 00:08:00  1      43   28   3   0   0   0   14   5   7    -   -   -      28   1   3   1   0   151
2008-11-24 00:09:00  1      43   18   2   0   0   0   9    0   3    -   -   -      35   0   4   1   0   137
2008-11-24 00:10:00  1      45   21   2   0   0   0   7    0   4    -   -   -      14   1   6   1   0   123
```

Why

- Spreadsheet...

- Automation

Alternatives

- Chart::Graph::Gnuplot

- GD::Graph

- Chart::Plot

Chart::Gnuplot

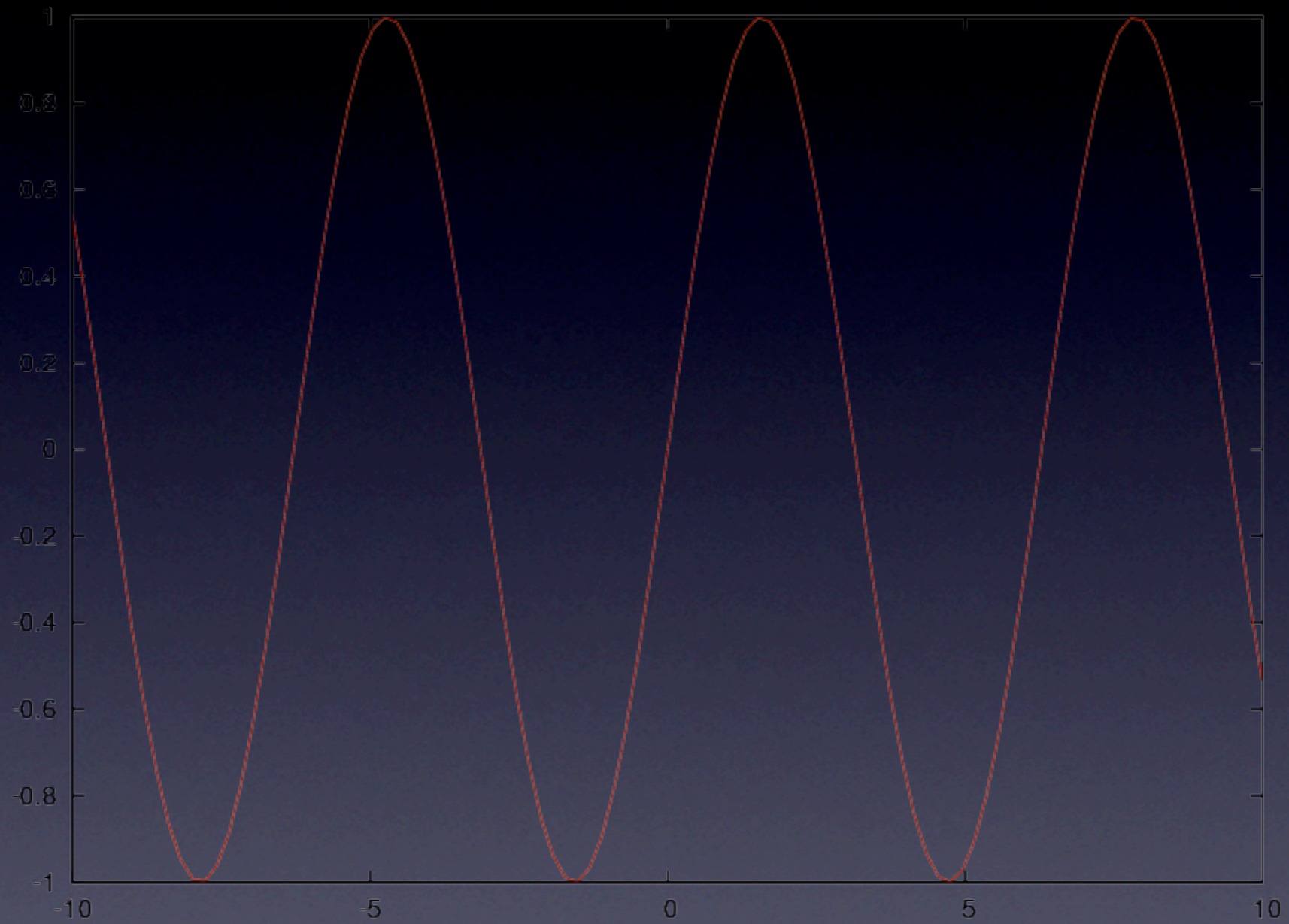- New Module (0.06)

- Object Based

- Multiple Outputs

Example

```perl
my $chart = Chart::Gnuplot->new(
    output => "expression.png"
);

my $dataSet = Chart::Gnuplot::DataSet->new(
    func => "sin(x)"
);

$chart->plot2d($dataSet);
```

Result

```perl
my $outputfile = shift;
my $chart = Chart::Gnuplot->new(
    output => $outputfile,
    timeaxis => 'x',
    log => 'y',
    xtics => {
        labelfmt => '%H',
        },
);
```

```
my $optionindex = shift;
open ( FILE, shift);
my $datasetin = {};
while (<FILE>) {
    my @data = split(/\t/);
    my ($date,$time) = split(/ /,$data[0]);
    $datasetin->{$date}->{$time} = $data[$optionindex];
}
```

```perl
my @datasets;
for my $date (keys %$datasetin) {
    my @xy;
    for my $time (keys %{$datasetin->{$date}}) {
        push (@xy, [$time, $datasetin->{$date}->{$time}]);
    }
    @xy = sort(@xy);
```

```perl
    my $datasetout = Chart::Gnuplot::DataSet->new(
        points => \@xy,
        title => $date,
        style => 'points',
        pointsize => '0.5',
        timefmt => '%H:%M:%S'
    );
    push (@datasets,$datasetout);
}

$chart->plot2d(@datasets);
```
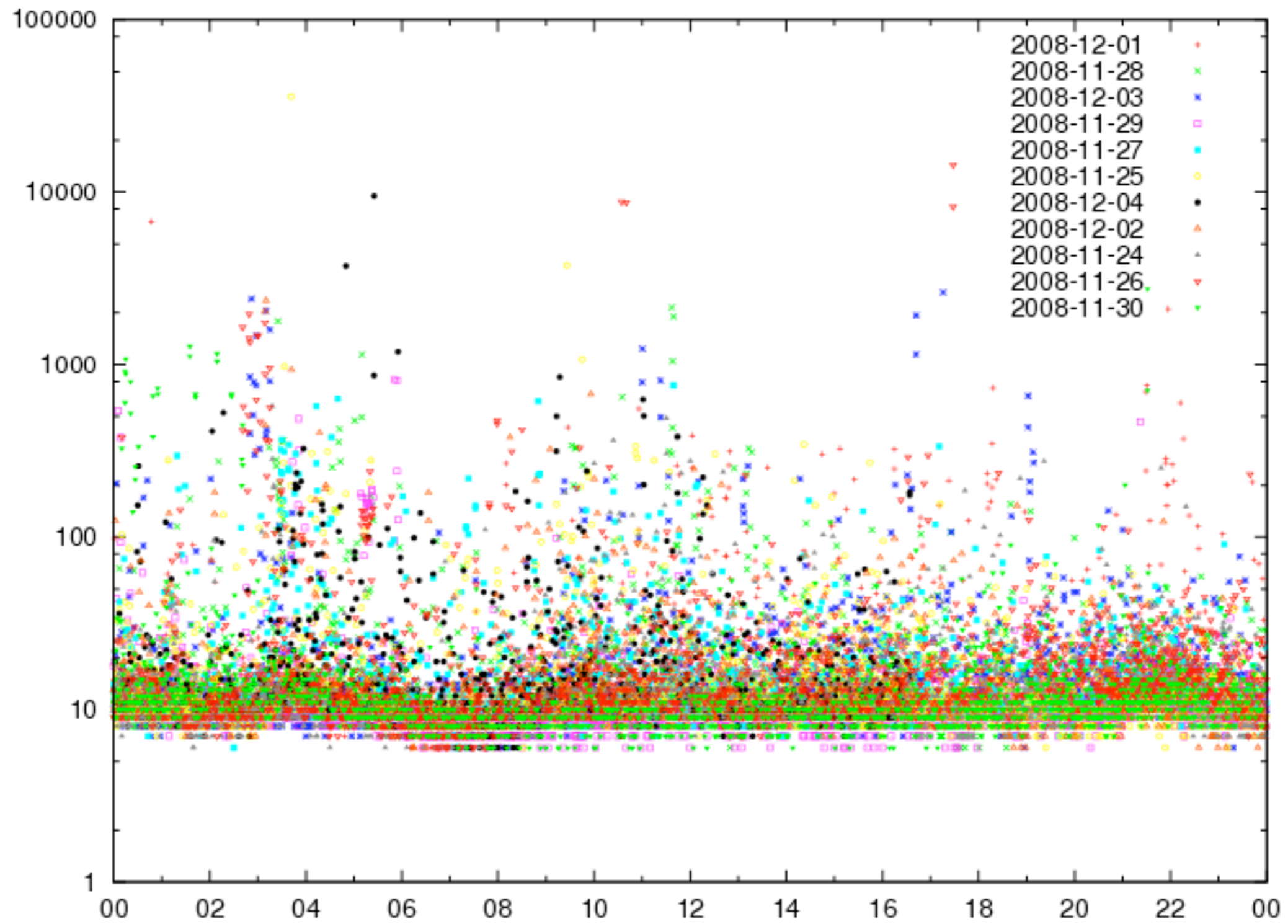
Something Else

- logresolvemerge.pl