

---

# Basic Contest Statistics

<http://www.mathworks.com/matlabcentral/contest/>

```
fprintf('Published from file %s on %s\n',mfilename,datestr(now,1));
```

```
Published from file basic_contest_stats on 03-Feb-2014
```

```
% These are all the contests in the correct chronological order
```

```
contestIdList = getAllContestIds;
```

```
query = 'SELECT ALL id,title FROM contests';
```

```
db = connectToContestDatabase;
```

```
names = queryDatabase(db, query);
```

```
close(db)
```

```
data = [];
```

```
for i = 1:length(contestIdList)
```

```
    d = getContestData(contestIdList(i));
```

```
    % Remove the entries that failed the test suite
```

```
    d = d([d.passed]);
```

```
    d = rankAtDebut(d);
```

```
    contestName = names{contestIdList(i),2};
```

```
    timeplot(d)
```

```
    title([contestName ' ' datestr(d(1).t,1)] );
```

```
    box on
```

```
    snapnow
```

```
    leaders = find([d.initial_rank]==1);
```

```
    len = length(d);
```

```
    fprintf('Name: %s\n', contestName)
```

```
    fprintf('Time of first entry: %s\n', datestr(d(1).t));
```

```
    fprintf('Time of last entry: %s\n', datestr(d(end).t));
```

```
    numAuthors = length(unique([d.author_id]));
```

```
    fprintf('Number of Players: %d\n',numAuthors);
```

```
    fprintf('Number of Entries: %d\n',len);
```

```
    fprintf('Entries per Player: %3.1f\n',len/numAuthors);
```

```
    fprintf('Number of Leading Entries: %d\n',length(leaders));
```

```
    numLeadingAuthors = length(unique([d(leaders).author_id]));
```

```
    fprintf('Number of Leading Players: %d\n',numLeadingAuthors);
```

```
    fprintf('Players per Leading Player: %3.1f\n',numAuthors/numLeadingAuthors);
```

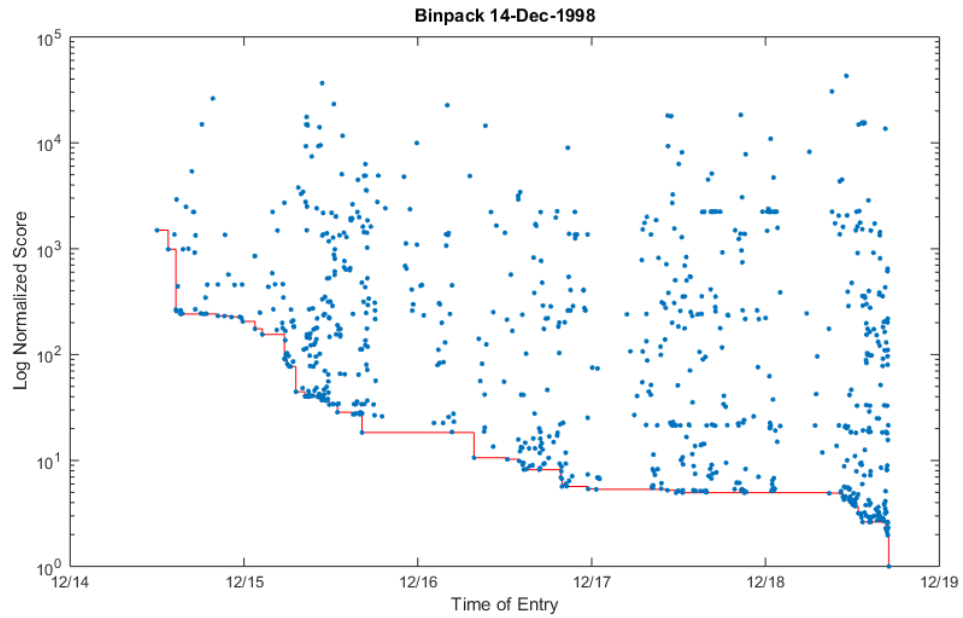
```
    fprintf('Leader Percentage: %3.1f%%\n',length(leaders)/len*100);
```

```
    num_passed = sum([d.passed]==1);
```

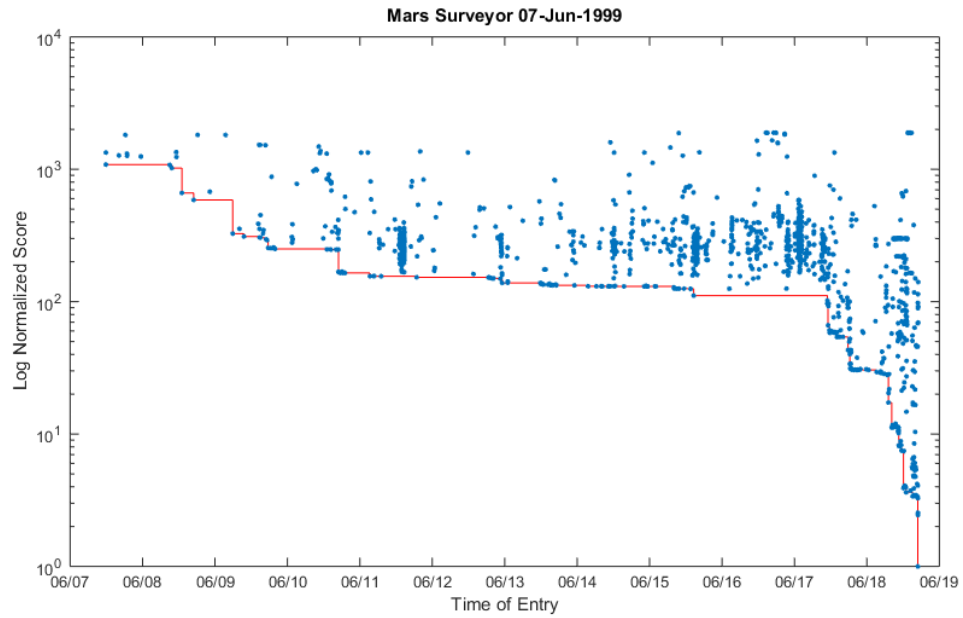
```
    fprintf('Passing Entries: %d\n',num_passed);
```

```
    fprintf('Passing Percentage: %3.1f%%\n',num_passed/len*100);
```

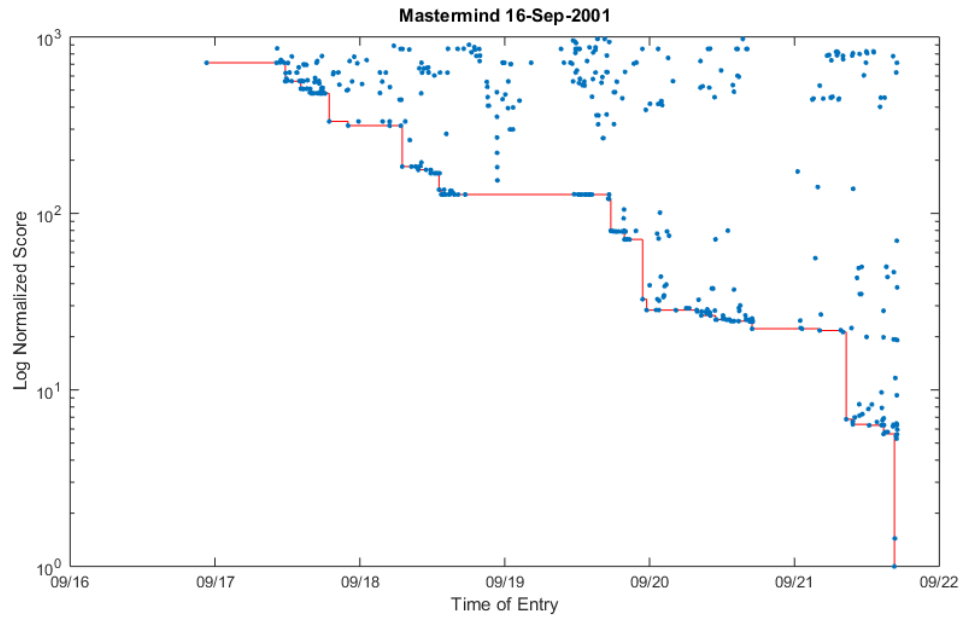
```
end
```



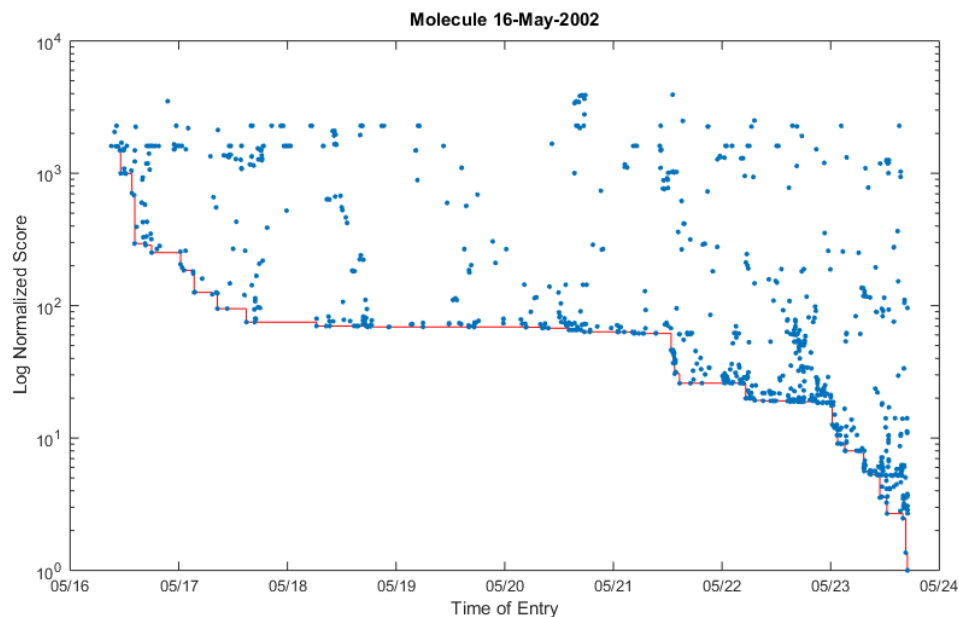
Name: Binpack  
Time of first entry: 14-Dec-1998 12:00:00  
Time of last entry: 18-Dec-1998 17:01:03  
Number of Players: 112  
Number of Entries: 877  
Entries per Player: 7.8  
Number of Leading Entries: 62  
Number of Leading Players: 19  
Players per Leading Player: 5.9  
Leader Percentage: 7.1%  
Passing Entries: 877  
Passing Percentage: 100.0%



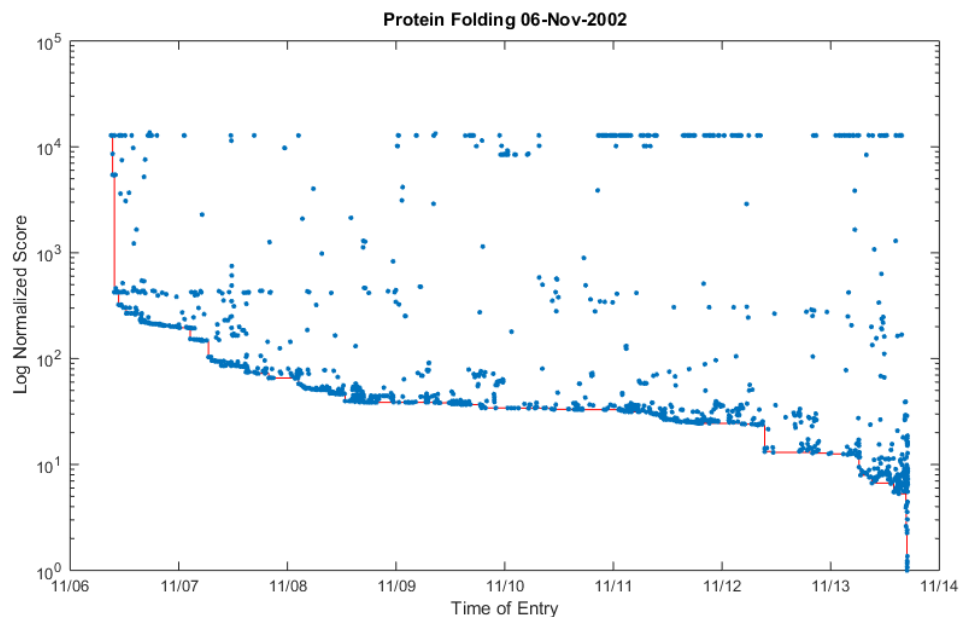
Name: Mars Surveyor  
Time of first entry: 07-Jun-1999 11:51:37  
Time of last entry: 18-Jun-1999 16:59:43  
Number of Players: 56  
Number of Entries: 1371  
Entries per Player: 24.5  
Number of Leading Entries: 86  
Number of Leading Players: 17  
Players per Leading Player: 3.3  
Leader Percentage: 6.3%  
Passing Entries: 1371  
Passing Percentage: 100.0%



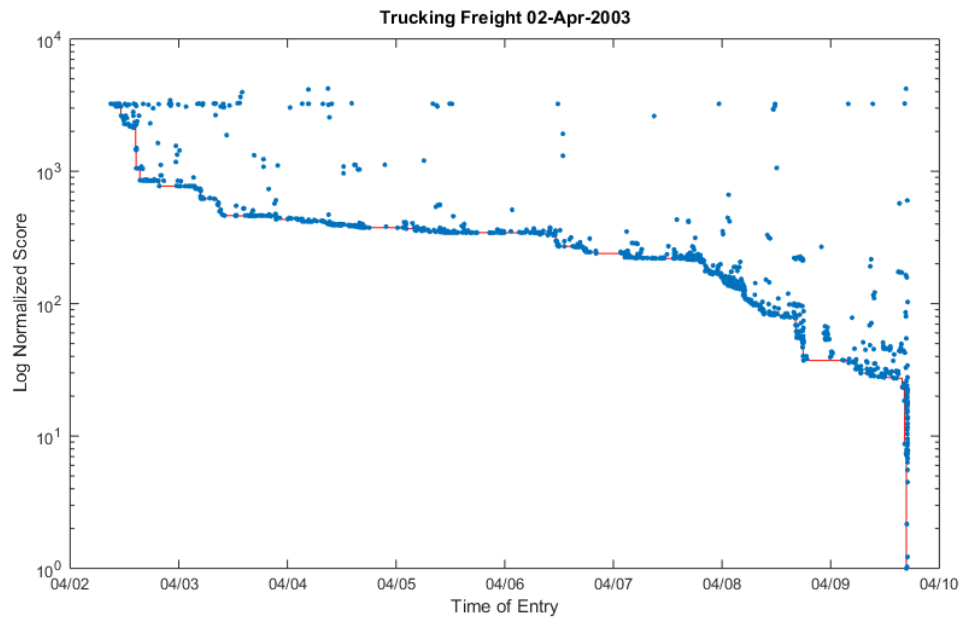
*Name: Mastermind*  
*Time of first entry: 16-Sep-2001 22:36:50*  
*Time of last entry: 21-Sep-2001 17:00:47*  
*Number of Players: 88*  
*Number of Entries: 511*  
*Entries per Player: 5.8*  
*Number of Leading Entries: 50*  
*Number of Leading Players: 19*  
*Players per Leading Player: 4.6*  
*Leader Percentage: 9.8%*  
*Passing Entries: 511*  
*Passing Percentage: 100.0%*



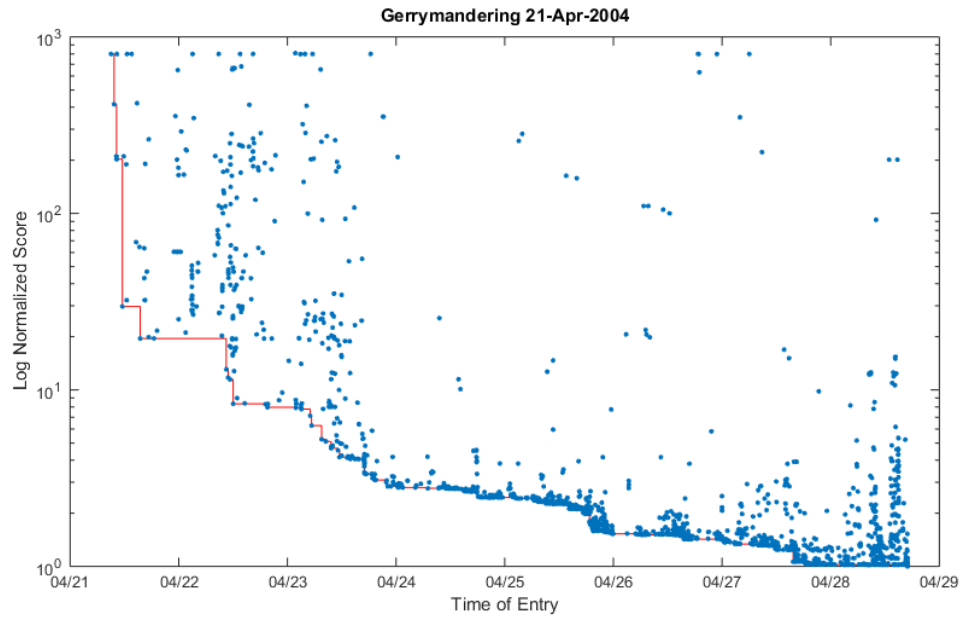
Name: Molecule  
Time of first entry: 16-May-2002 09:06:38  
Time of last entry: 23-May-2002 16:59:58  
Number of Players: 124  
Number of Entries: 977  
Entries per Player: 7.9  
Number of Leading Entries: 80  
Number of Leading Players: 21  
Players per Leading Player: 5.9  
Leader Percentage: 8.2%  
Passing Entries: 977  
Passing Percentage: 100.0%



*Name: Protein Folding*  
*Time of first entry: 06-Nov-2002 09:02:04*  
*Time of last entry: 13-Nov-2002 17:00:21*  
*Number of Players: 181*  
*Number of Entries: 1881*  
*Entries per Player: 10.4*  
*Number of Leading Entries: 198*  
*Number of Leading Players: 37*  
*Players per Leading Player: 4.9*  
*Leader Percentage: 10.5%*  
*Passing Entries: 1881*  
*Passing Percentage: 100.0%*

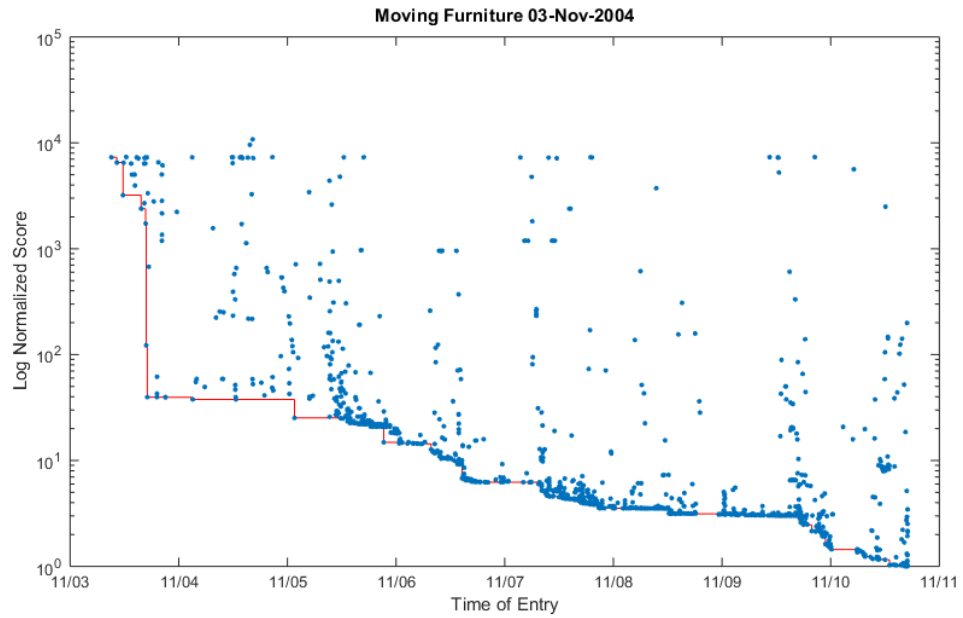


Name: Trucking Freight  
Time of first entry: 02-Apr-2003 09:00:07  
Time of last entry: 09-Apr-2003 17:03:30  
Number of Players: 111  
Number of Entries: 1363  
Entries per Player: 12.3  
Number of Leading Entries: 231  
Number of Leading Players: 44  
Players per Leading Player: 2.5  
Leader Percentage: 16.9%  
Passing Entries: 1363  
Passing Percentage: 100.0%

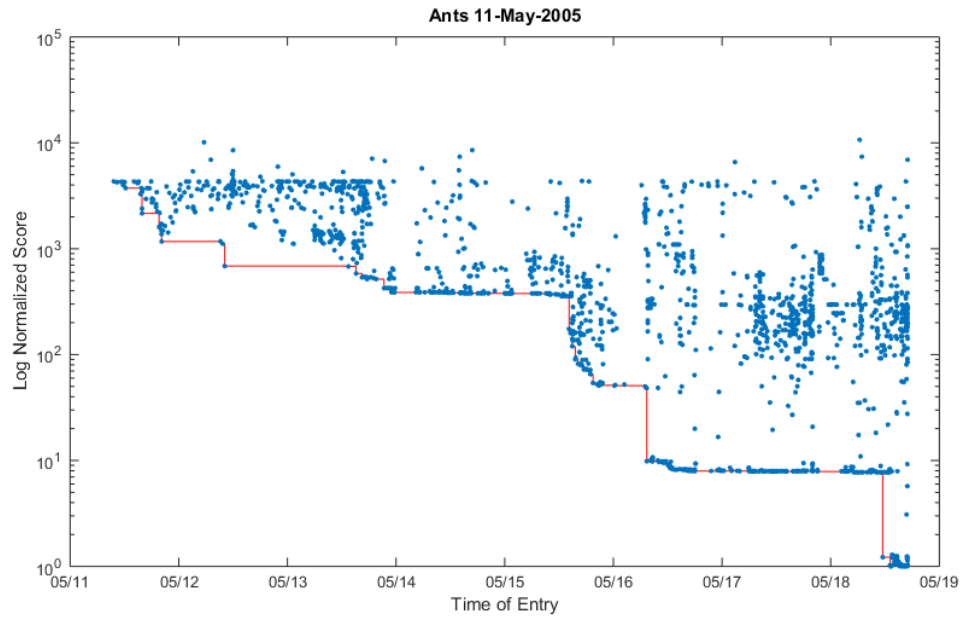


Name: Gerrymandering  
Time of first entry: 21-Apr-2004 09:01:57  
Time of last entry: 28-Apr-2004 17:00:00  
Number of Players: 152  
Number of Entries: 2038  
Entries per Player: 13.4  
Number of Leading Entries: 200  
Number of Leading Players: 48  
Players per Leading Player: 3.2  
Leader Percentage: 9.8%  
Passing Entries: 2038  
Passing Percentage: 100.0%

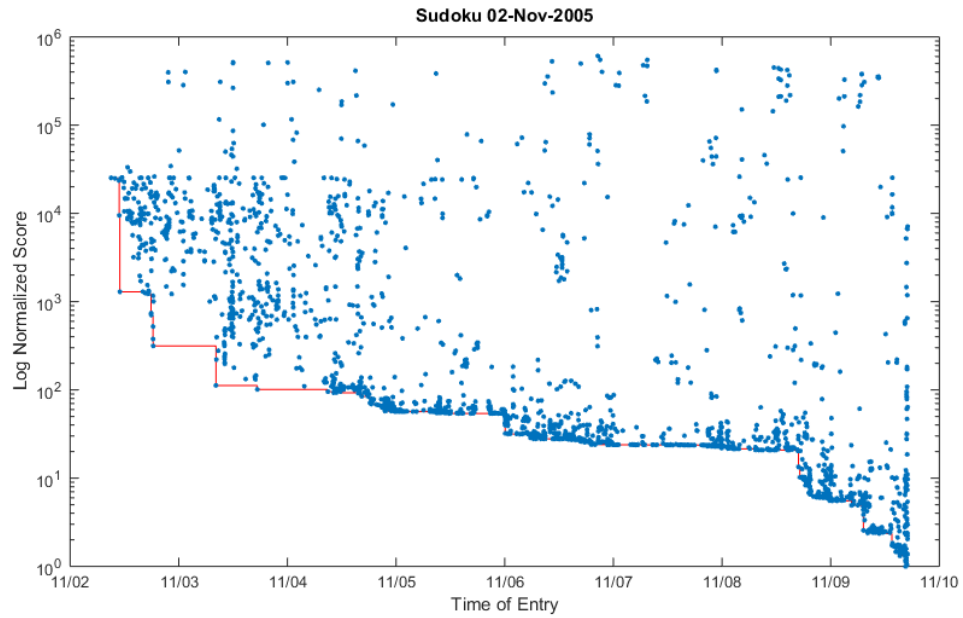




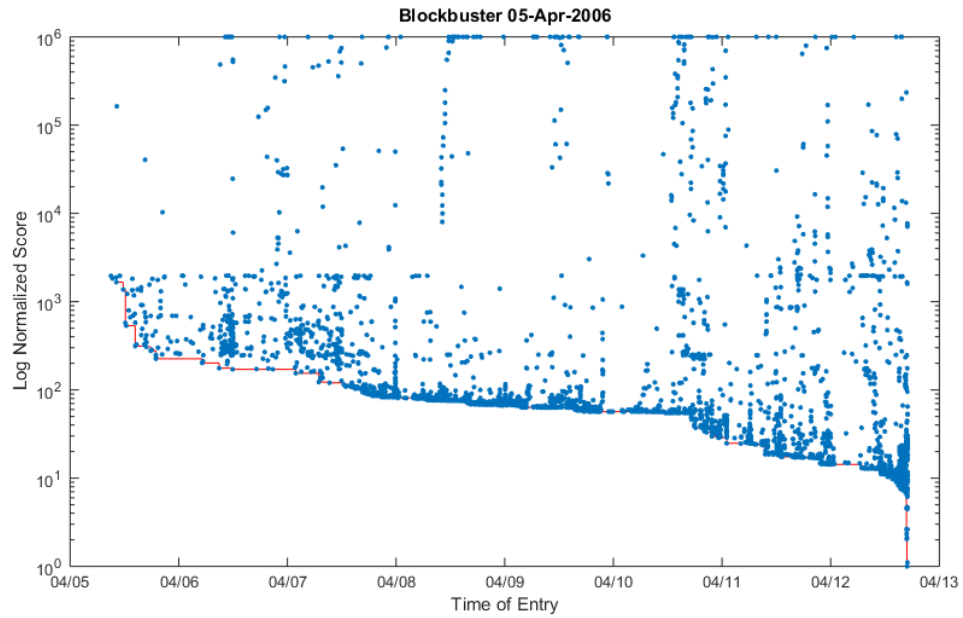
Name: Moving Furniture  
Time of first entry: 03-Nov-2004 09:07:32  
Time of last entry: 10-Nov-2004 16:59:50  
Number of Players: 86  
Number of Entries: 1270  
Entries per Player: 14.8  
Number of Leading Entries: 175  
Number of Leading Players: 29  
Players per Leading Player: 3.0  
Leader Percentage: 13.8%  
Passing Entries: 1270  
Passing Percentage: 100.0%



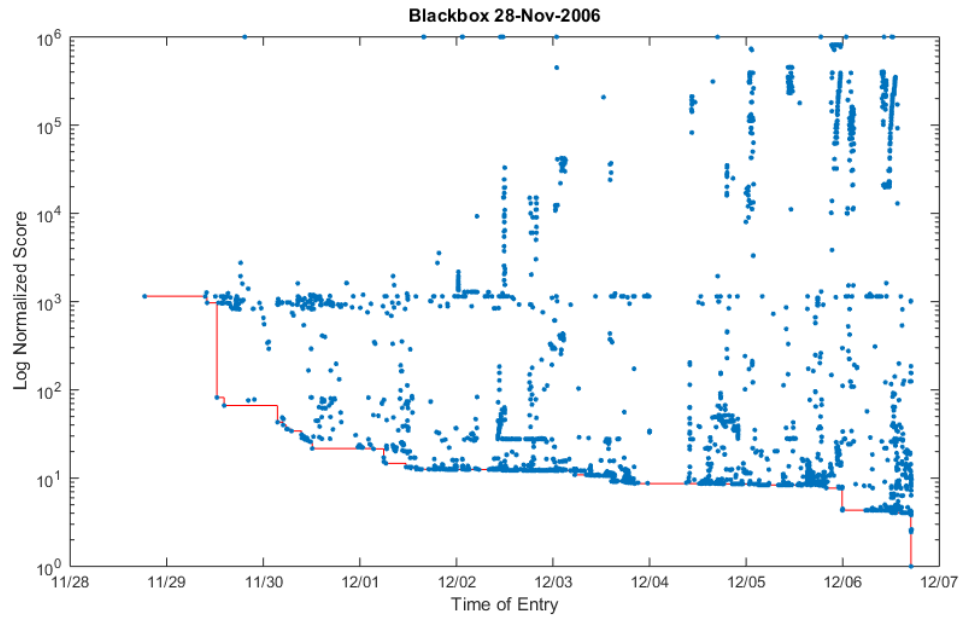
Name: Ants  
Time of first entry: 11-May-2005 09:39:33  
Time of last entry: 18-May-2005 17:00:01  
Number of Players: 154  
Number of Entries: 1972  
Entries per Player: 12.8  
Number of Leading Entries: 91  
Number of Leading Players: 19  
Players per Leading Player: 8.1  
Leader Percentage: 4.6%  
Passing Entries: 1972  
Passing Percentage: 100.0%



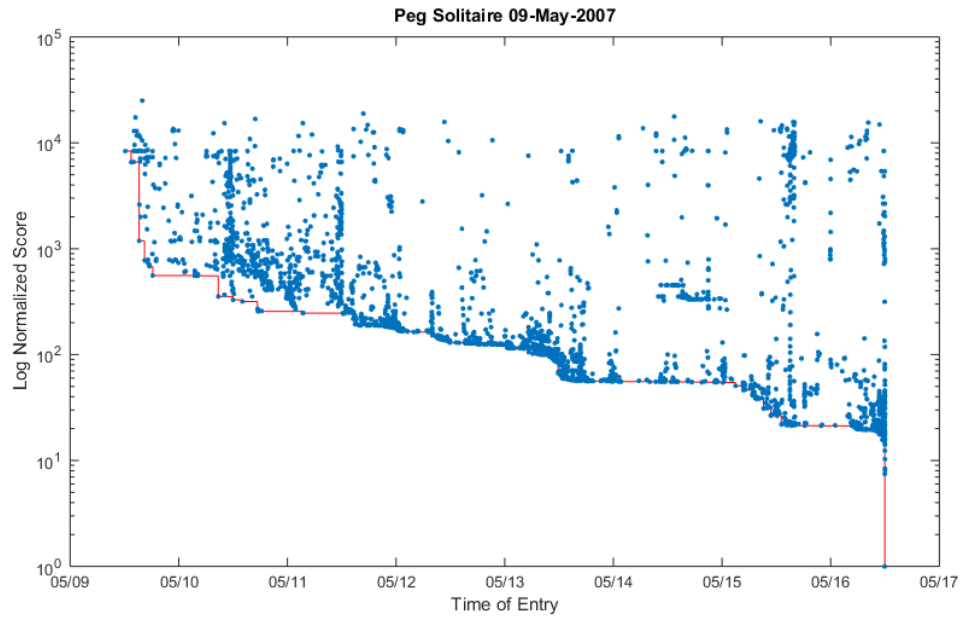
Name: Sudoku  
Time of first entry: 02-Nov-2005 09:02:40  
Time of last entry: 09-Nov-2005 16:59:51  
Number of Players: 170  
Number of Entries: 2439  
Entries per Player: 14.3  
Number of Leading Entries: 143  
Number of Leading Players: 32  
Players per Leading Player: 5.3  
Leader Percentage: 5.9%  
Passing Entries: 2439  
Passing Percentage: 100.0%



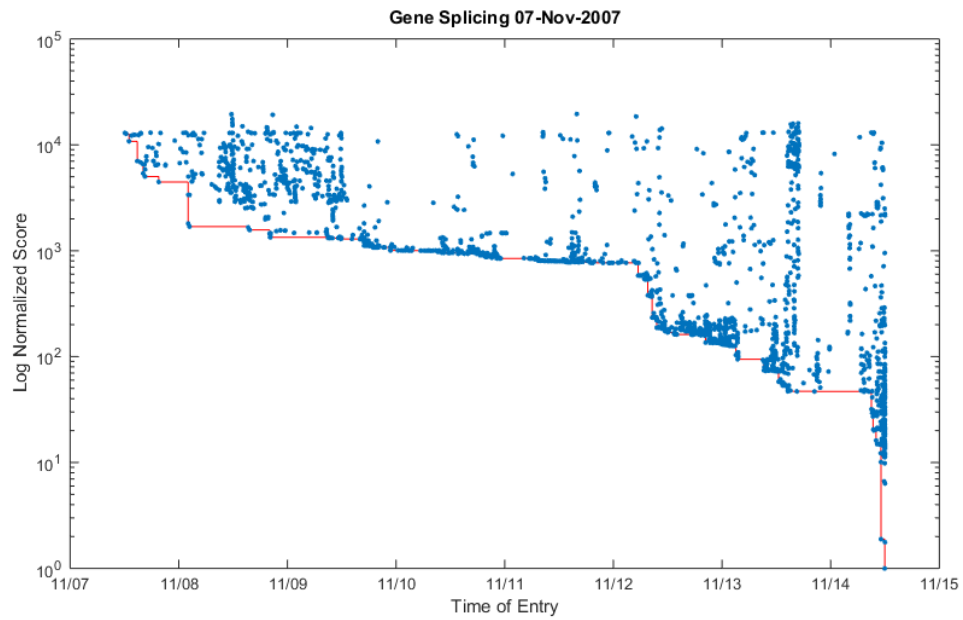
Name: Blockbuster  
Time of first entry: 05-Apr-2006 09:01:16  
Time of last entry: 12-Apr-2006 17:00:01  
Number of Players: 170  
Number of Entries: 5150  
Entries per Player: 30.3  
Number of Leading Entries: 207  
Number of Leading Players: 43  
Players per Leading Player: 4.0  
Leader Percentage: 4.0%  
Passing Entries: 5150  
Passing Percentage: 100.0%



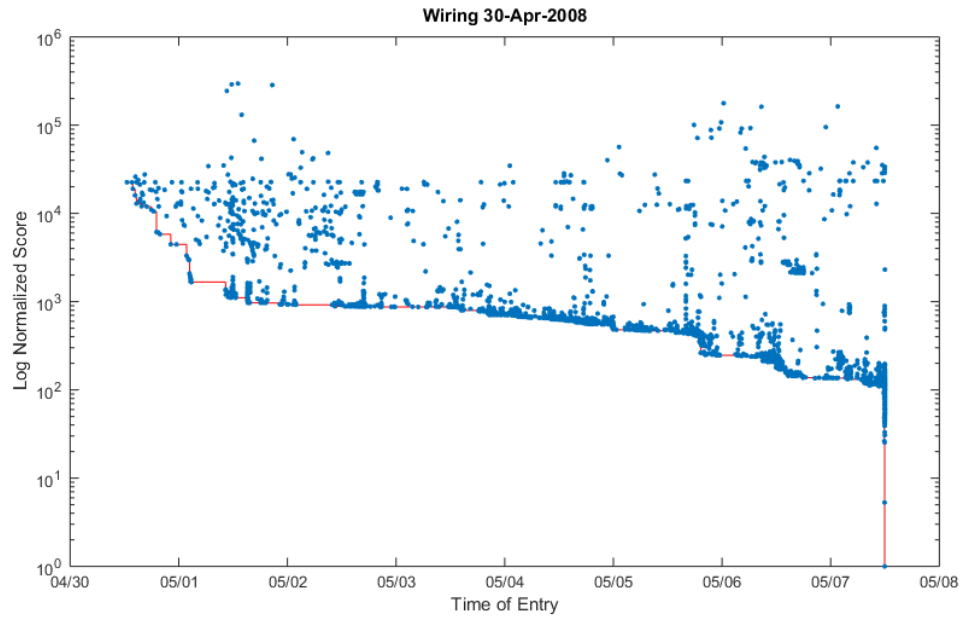
Name: Blackbox  
Time of first entry: 28-Nov-2006 18:31:48  
Time of last entry: 06-Dec-2006 17:06:32  
Number of Players: 143  
Number of Entries: 4600  
Entries per Player: 32.2  
Number of Leading Entries: 77  
Number of Leading Players: 23  
Players per Leading Player: 6.2  
Leader Percentage: 1.7%  
Passing Entries: 4600  
Passing Percentage: 100.0%



Name: Peg Solitaire  
Time of first entry: 09-May-2007 12:11:29  
Time of last entry: 16-May-2007 11:59:58  
Number of Players: 113  
Number of Entries: 3426  
Entries per Player: 30.3  
Number of Leading Entries: 179  
Number of Leading Players: 27  
Players per Leading Player: 4.2  
Leader Percentage: 5.2%  
Passing Entries: 3426  
Passing Percentage: 100.0%

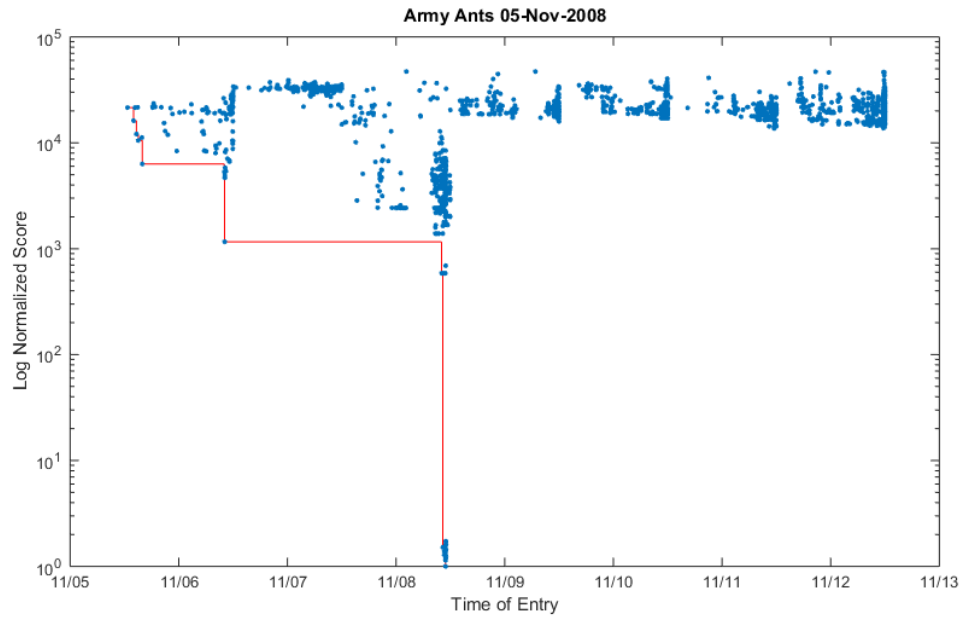


*Name: Gene Splicing*  
*Time of first entry: 07-Nov-2007 12:05:35*  
*Time of last entry: 14-Nov-2007 11:59:55*  
*Number of Players: 127*  
*Number of Entries: 2687*  
*Entries per Player: 21.2*  
*Number of Leading Entries: 178*  
*Number of Leading Players: 27*  
*Players per Leading Player: 4.7*  
*Leader Percentage: 6.6%*  
*Passing Entries: 2687*  
*Passing Percentage: 100.0%*

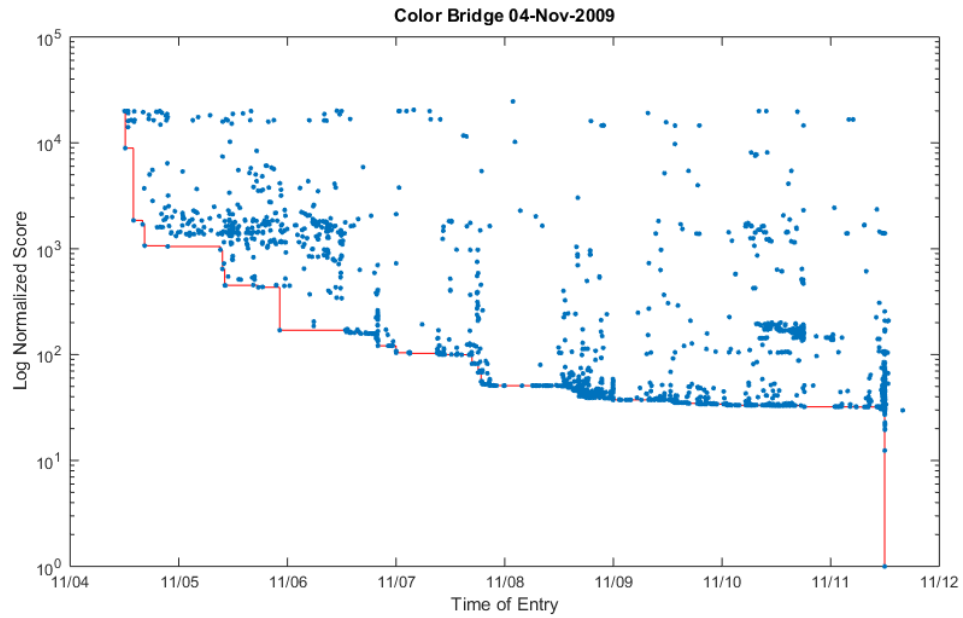


Name: Wiring  
Time of first entry: 30-Apr-2008 12:33:04  
Time of last entry: 07-May-2008 11:59:59  
Number of Players: 99  
Number of Entries: 3707  
Entries per Player: 37.4  
Number of Leading Entries: 201  
Number of Leading Players: 26  
Players per Leading Player: 3.8  
Leader Percentage: 5.4%  
Passing Entries: 3707  
Passing Percentage: 100.0%

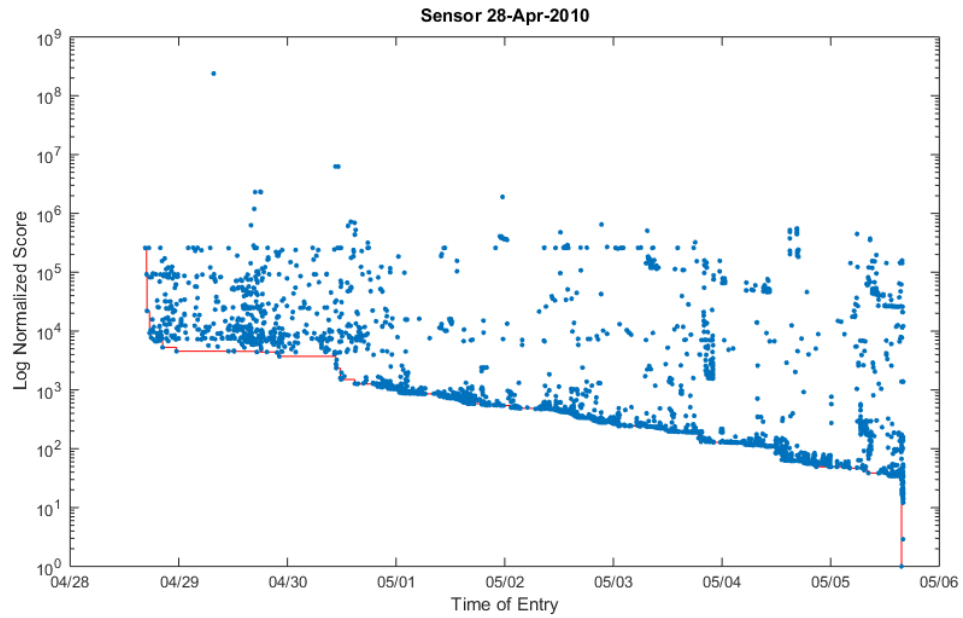




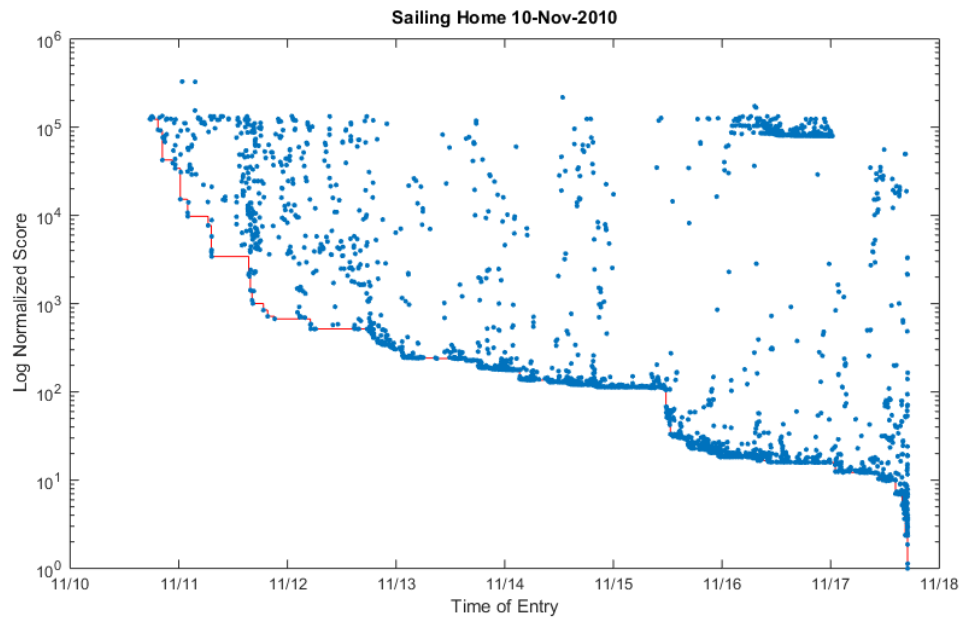
Name: Army Ants  
Time of first entry: 05-Nov-2008 12:40:28  
Time of last entry: 12-Nov-2008 12:00:00  
Number of Players: 60  
Number of Entries: 2128  
Entries per Player: 35.5  
Number of Leading Entries: 14  
Number of Leading Players: 7  
Players per Leading Player: 8.6  
Leader Percentage: 0.7%  
Passing Entries: 2128  
Passing Percentage: 100.0%



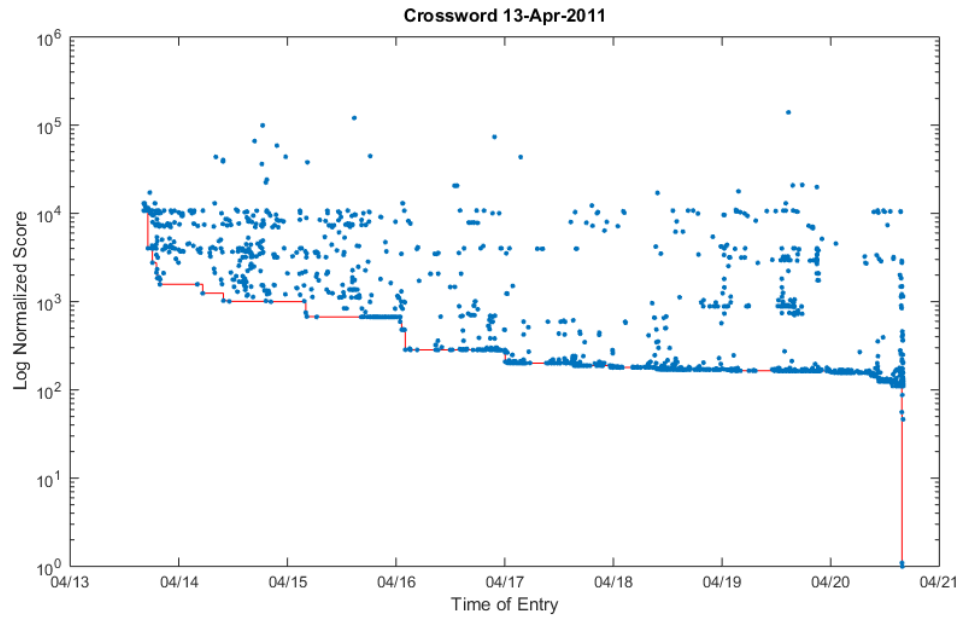
Name: Color Bridge  
Time of first entry: 04-Nov-2009 12:01:01  
Time of last entry: 11-Nov-2009 15:54:35  
Number of Players: 103  
Number of Entries: 2270  
Entries per Player: 22.0  
Number of Leading Entries: 121  
Number of Leading Players: 19  
Players per Leading Player: 5.4  
Leader Percentage: 5.3%  
Passing Entries: 2270  
Passing Percentage: 100.0%



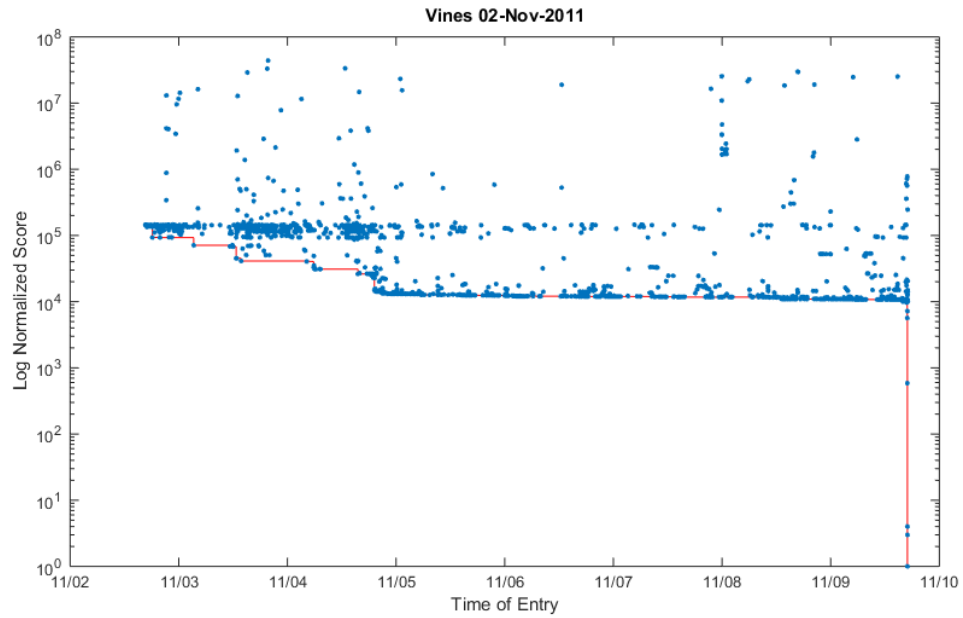
Name: Sensor  
Time of first entry: 28-Apr-2010 16:35:00  
Time of last entry: 05-May-2010 16:00:00  
Number of Players: 179  
Number of Entries: 4232  
Entries per Player: 23.6  
Number of Leading Entries: 279  
Number of Leading Players: 22  
Players per Leading Player: 8.1  
Leader Percentage: 6.6%  
Passing Entries: 4232  
Passing Percentage: 100.0%



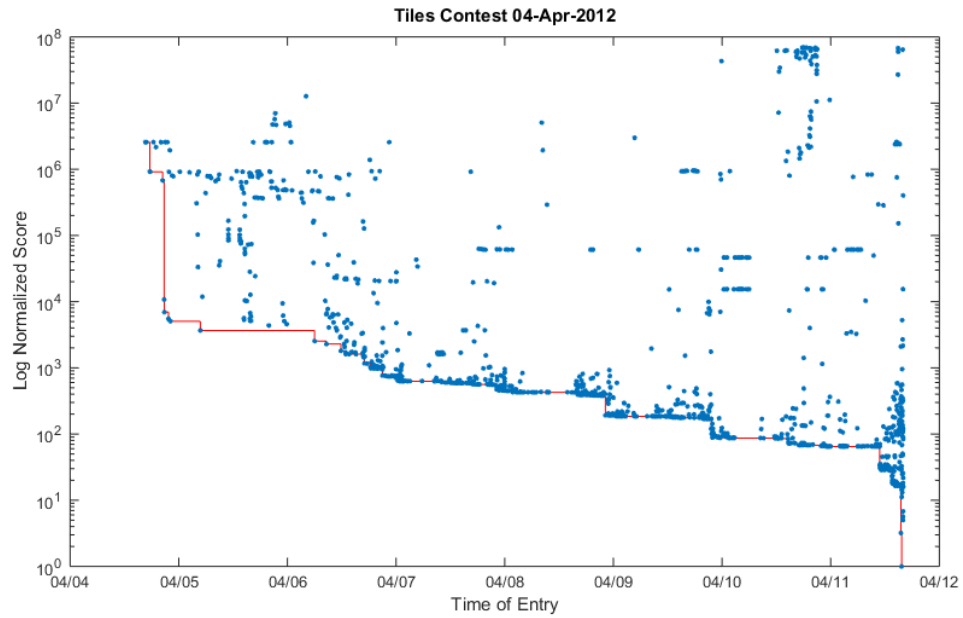
Name: Sailing Home  
Time of first entry: 10-Nov-2010 17:37:41  
Time of last entry: 17-Nov-2010 17:01:28  
Number of Players: 95  
Number of Entries: 3175  
Entries per Player: 33.4  
Number of Leading Entries: 244  
Number of Leading Players: 33  
Players per Leading Player: 2.9  
Leader Percentage: 7.7%  
Passing Entries: 3175  
Passing Percentage: 100.0%



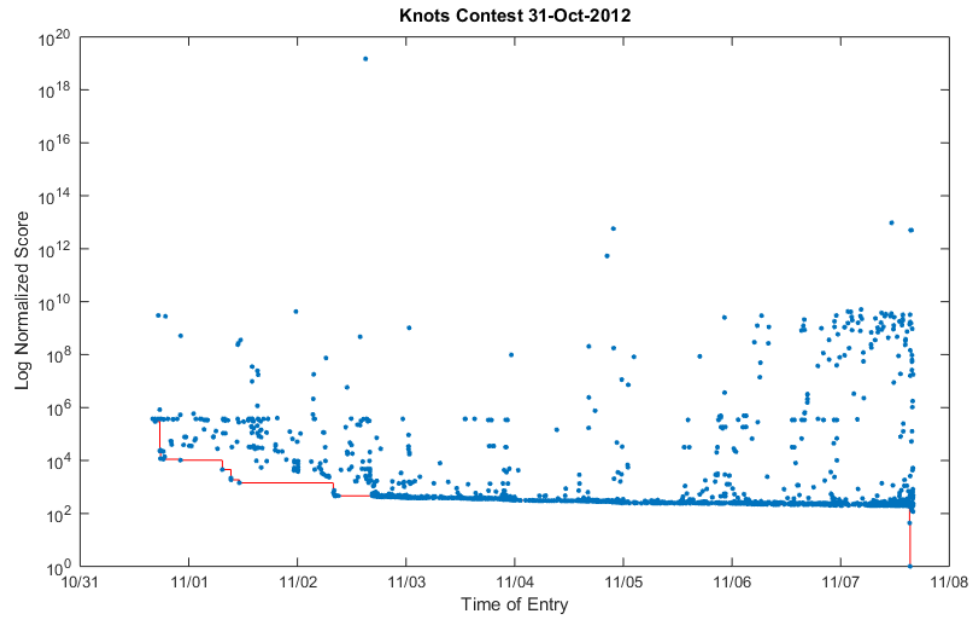
Name: Crossword  
Time of first entry: 13-Apr-2011 16:13:41  
Time of last entry: 20-Apr-2011 15:59:45  
Number of Players: 90  
Number of Entries: 1847  
Entries per Player: 20.5  
Number of Leading Entries: 88  
Number of Leading Players: 21  
Players per Leading Player: 4.3  
Leader Percentage: 4.8%  
Passing Entries: 1847  
Passing Percentage: 100.0%



Name: Vines  
Time of first entry: 02-Nov-2011 16:37:34  
Time of last entry: 09-Nov-2011 16:59:59  
Number of Players: 97  
Number of Entries: 1627  
Entries per Player: 16.8  
Number of Leading Entries: 126  
Number of Leading Players: 20  
Players per Leading Player: 4.8  
Leader Percentage: 7.7%  
Passing Entries: 1627  
Passing Percentage: 100.0%



*Name: Tiles Contest*  
*Time of first entry: 04-Apr-2012 16:37:58*  
*Time of last entry: 11-Apr-2012 15:59:45*  
*Number of Players: 46*  
*Number of Entries: 1481*  
*Entries per Player: 32.2*  
*Number of Leading Entries: 157*  
*Number of Leading Players: 22*  
*Players per Leading Player: 2.1*  
*Leader Percentage: 10.6%*  
*Passing Entries: 1481*  
*Passing Percentage: 100.0%*



Name: Knots Contest  
Time of first entry: 31-Oct-2012 16:02:44  
Time of last entry: 07-Nov-2012 15:59:55  
Number of Players: 73  
Number of Entries: 1938  
Entries per Player: 26.5  
Number of Leading Entries: 154  
Number of Leading Players: 28  
Players per Leading Player: 2.6  
Leader Percentage: 7.9%  
Passing Entries: 1938  
Passing Percentage: 100.0%

*Published with MATLAB® R2014b*