

# **KEDS\_COUNT**

## **An Event Data Aggregation Program**

### **Java Version 3.0b1**

Kansas Event Data System Project  
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*KEDS\_Count* is a program that aggregates event data by time period and dyad. The program was designed to work with output from the KEDS machine-coding system<sup>1</sup> but will work with any tab-delimited event data. The program operates in a “batch” mode by first reading a “command file”—created using a text processor—that defines the characteristics of the aggregation. It then reads through the event data files and produces a tab-limited output file for each dyad and a composite file containing all of the counts. These output files can be read into a spreadsheet or statistics program.

## **Running the Program**

1. Put the program, the event data files and the command file in the same folder. Be sure that none of the files are open in any other program (e.g. be sure to close the command file if you have been editing it).
2. Start the Terminal (OS-X<sup>2</sup>), Shell (Linux) or Command Prompt (Windows<sup>3</sup>), and set the directory to the folder containing the program and data.
3. Type `java KEDS_Count`. The program will display a window with the program title and a standard file selection dialog. Select the command file and the program will start running automatically.

*KEDS\_Count* provides sufficient feedback to let you know it is running, and will give you some idea of what the program was doing if it crashes, but provides little additional information. While reading data, the program displays a "+" if it has read a record containing the source and a specific target, a "\*" if it has read a record containing the source and is recording all interactions, and a "-" if it reads a record that does not contain an event that will be recorded. When the program is reading a large amount of data, it will take quite some time to run but requires no further user interaction and can run unattended. The program "beeps" when it has finished; click the Quit and Exit button, or (OS-X) enter Cmd-Q to end the program.

## **Event Data Input Format**

The event data must be in tab-delimited text files—that is, files where the individual fields (date, source code, target code and event code) are separated by tabs—with the data in chronological order. The fields can be in any order and can contain additional tab-delimited information.

## Individual Output Format

Each output file is titled with a dyad identification (e.g. PAL2ISR) and contains tab-delimited text with the first line of the file being the variable names:

Date	N	Scale	10	11	14*	5*	17*	77*
860303	2	-0.33	0	0	0	0	0	0
860317	0	0.00	0	0	0	0	0	0
860331	2	-1.20	0	0	0	2	0	0
860414	0	0.00	0	0	0	2	0	0
860428	1	-3.40	0	0	0	2	0	0

Field definitions:

**Date** Date of the first day of the period being aggregated (or month and year for monthly aggregations). The format of the date can be modified.

**N** Total number of events for the period

**Scale** Sum of the scaled codes for the period

**remainder** Total number of events of each type of code tabulated

These files are produced when an **OUTPUT: INDIVIDUAL** command is in the **-FILES** section.

## Composite Output Format

This is similar to the individual output, except that all of the text is contained in a single file rather than in individual files. The label for the dyad that has been tabulated replaces the "Date" label. The aggregated file is labeled with the files prefix (see "-FORMAT" section) followed by ".counts". This file is produced when an **OUTPUT: COMPOSITE** command is in the **-FILES** section.

## Command File Format

The command file has five sections separated by lines that begin with a hyphen ('-'):

- FORMAT** Describes the input and output formats
- SCALES** Gives the scaled numerical equivalent for each code
- FILES** Lists the input and output files
- COUNT** Lists the individual codes that will be tabulated
- DYADS** Lists the dyads that will be tabulated
- FINISH** Final line in the command file

These sections must be in the order listed.

The command file must be in *text* format ("flat ASCII"), not in the default format of a word-processor. All word processors have an option for saving a file in text format.

Following Unix conventions, any line beginning with # is considered a comment and ignored. Blank lines are also ignored, and lines can contain initial white space (spaces and tabs) in order to improve readability.

## **-FORMAT**

This section consists of commands with the format: `<command>=<N>|<string>`

### **PREFIX=<string>**

Give the prefix (up to 12 characters) that will be added at the beginning of the name of each output file. For example, `PREFIX=RUN1.` and the dyad command `PAL/ISR USA` would produce the file names `RUN1.PAL2ISR` and `RUN1.PAL2USA`; the composite file would be `RUN1.counts`. The prefix begins *immediately* after the equal sign unless you want the prefix to begin with a blank.

Default: `KCOUNT`.

### **DATE=<N>**

### **SOURCE=<N>**

### **TARGET=<N>**

### **EVENT=<N>**

These commands give the location, by tab-delimited field of the data, source code, target code and event code; `<N>` is an integer. For example, `EVENT=6` indicates that the event code is in the sixth field of the data.

Defaults: `DATE=1, SOURCE=2, TARGET=3, EVENT=4`

### **FREQ={DAILY, WEEKLY, BIWEEKLY, WEEKLY(M), BIWEEKLY(M), MONTHLY, QUARTERLY}**

This command specifies the period of aggregation. Daily is one day, weekly is 7 days, biweekly is 14 days, monthly uses the calendar month and quarterly uses three calendar months, starting with either January, April, July or October. By default, the weekly and biweekly aggregations start with Sunday; if the (M) is added, it starts with Monday.<sup>4</sup> A record consisting of the data and all zeroes will be added if a period occurs without any events.

The system will skip initial records until it hits the beginning of a full period so, for example, if the data begin on 15 April and the aggregation period is `MONTHLY`, the start of the first tabulation period will be 1 May; if the aggregation is `QUARTERLY`, the start of the first tabulation period will be 1 July; if the aggregation is `WEEKLY` or `BIWEEKLY`, the starting date will be increment until a Sunday or Monday is encountered.

Default: `MONTHLY`

### **LABEL=<Java SimpleDateFormat string>**

This gives the label format for the dates; it can be any string that satisfies the Java `SimpleDateFormat` format: see

<http://java.sun.com/j2se/1.4.2/docs/api/java/text/SimpleDateFormat.html>

for details, or enter “Simpledateformat” in Google to get plenty of examples and tutorials.

The 2-digit year is modulus 1928: in other words, dates from 28 to 99 are 1928 to 1999 and dates 00 to 27 are 2000 to 2027. This allows the weekly and biweekly aggregations to correctly handle periods crossing 1 January 2000.

Examples: For the date 5 October 1991, the following would be produced

LABEL=yyMMdd	911005
LABEL =yy.MM.dd	91.10.05
LABEL =MM/dd/yy	10/05/91
LABEL =MM-yy	10-91
LABEL =dd MMM yyyy	10 Oct 1991

Default: yyMMdd

**Example:**

```
-FORMAT
PREFIX=RUN1 .
DATE=1
SOURCE=2
TARGET=4
EVENT=6
FREQ=BIWEEKLY
CALENDAR=dd/MM/yy
```

## **-SCALES**

This section gives the numerical values for each event code—for example those suggested in Goldstein (1992)<sup>5</sup>— and is used to produce a scaled score for the dyadic interaction. The format is

`<code>: [<value>]`

where the `<code>` is a string and `<value>` is a number. If a code is not included, it is assumed to be zero. The current version allows a maximum of 1024 codes to be scaled.

**Example:**

```
-SCALES
10: [ 0.6 ]
11: [ 0.6 ]
12: [ 0.6 ]
13: [ 2 ]
14: [ 0.6 ]
```

## **-FILES**

This gives a list of the files containing the input data—typically a separate file for each year of data. These must be listed in chronological order. Leading and trailing blanks are trimmed from the file names, so it is not possible to access a file beginning or ending with a blank.<sup>6</sup>

If no INPUT file names are listed in the command file (i.e. `-FILES` is followed immediately by `-COUNT`), the program reverts to a manual file selection sequence, alternating between a file selection dialog and a dialog box asking whether you wish to select an additional file. The files are listed as they are selected. When this sequence is finished, the file names are written to a file "KC.FileList.text" that can be cut-and-pasted into the command file.

Two output file options are available:

`OUTPUT: INDIVIDUAL` Separate files for the results of each dyad

`OUTPUT: COMPOSITE` Single file containing the results of all dyads

If neither command is specified, the default is `OUTPUT: COMPOSITE`

### **Example:**

```
-FILES
INPUT: MIDEAST88.EVENTS
INPUT: MIDEAST89.EVENTS
INPUT: MIDEAST90.EVENTS
INPUT: MIDEAST91.EVENTS
OUTPUT:COMPOSITE
```

## **-COUNT**

This section contains a list of codes that will be counted individually; these are typically codes or groups of codes of interest to specific research questions (e.g. uses of force). The format consists of a list of the codes; if you do not want any codes tabulated individually, just put the `-DYADS` command immediately after the `-COUNT` command.

The general format is

```
<label>: <code1> <code2> ... <code-n>
```

The label is optional. Codes can use the \* “wildcard” suffix described in the `-DYADS` section: for example the code `87*` would match “87”, “871”, “8734” and so forth.

Leading and trailing blanks are trimmed before any code-matching is done, so “85\*” will match the input “ 852”.

**Example**

```
-COUNT
arrest:17*
04*
190
193
matcf: 190 191 193
```

**-DYADS**

The `-DYADS` command initiates the actual processing of the data. It consists of lines with the format

```
<source>/<target1> <target2> ... <targetn>
```

Each source/target combination produces a separate file; for example `JOR/ISR USA PAL` produces the individual files `JOR2ISR`, `JOR2USA` and `JOR2PAL`.

The code string `'***'` indicates "all targets": this will total the interactions of the source with any target.<sup>7</sup> As with codes, leading and trailing blanks are trimmed before matching is done.

A "wildcard" is indicated when a code string ends with a `"*"`: this will match anything that begins with that string. For example `PAL*` would match `PALWB`, `PALGZ` and `PALEB`. Otherwise the entire string must match except for final blanks.

Multiple identifiers can be included in the same tabulation by enclosing them in `[...]`, for example `[ISR* USA*]` or `[IGONAT IGOUNO]`.

The default label for the tabulation is the first identifier in the source, followed to "2", followed by the first identifier in the target. A label can be specified by enclosing it in `{...}` following the target identifier.

**Example:**

```
-DYADS
PAL*/ISR LEB* SYR JOR USR ***
JOR/ISR USA PAL
[ISR* USA*]/[PAL* PSE*]{ISRUSAPSE} LBN
ISR*/[PAL* PSE* LEB* JOR* SYR* ]{LEVANT}
```

**-FINISH**

This is the final command in the file and terminates the processing. The program "beeps" when it has finished.

## PROGRAMING NOTES

Given that Java seems to have become the COBOL of the 21<sup>st</sup> century—with both the pluses and minuses that implies—we are gradually going to re-write our non-text-oriented utility programs in Java (filters will remain in perl and TABARI in C++). This was an early test case of that, and is probably still a little weird. Specifically:

1. The original program was written in Pascal at a time when there were more memory limitations and machines ran a whole lot slower;
2. Version 2.0 was Java converted from Pascal fairly quickly (tight budget...) and still contained a lot of code that looks, like, well, Pascal written in Java;
3. Version 3.0 eliminated a lot of this, but was Java written by someone who was basically learning Java by example and probably also contains a fair amount of weirdness;

All of which is to say, if the code looks inelegant or awkward, that is probably because it *is* inelegant and/or awkward. It's open source: please make whatever modifications you think appropriate and send me the new version.

## PROGRAM LIMITATIONS AND SHORTCUTS

Maximum length of code (including wildcard)	12 characters
Maximum codes in -SCALE section	1024
Maximum codes in -COUNT section	64
Maximum number of files in -FILES	32
Maximum number of targets in a single -DYADS command	32
Maximum number of items in a single [...] group	32

## Revision History

- 1.0 Philip Schrodt in Pascal 1995
- 2.0 Star Straf rewrite in Java Jan-2000
- 2.1 Modifications by Schrodt March-2007
- 3.0 Major rewrite by Schrodt June-2007

The most recent version of this code is available from the KEDS Web site:

<http://web.ku.edu/keds>

## Legal Stuff

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<http://www.opensource.org/licenses/gpl-license.html>

## Footnotes

<sup>1</sup> See:

Gerner, Deborah J., Philip A. Schrodt, Ronald A. Francisco, & Judith L. Weddle. 1994. The Machine Coding of Events from Regional and International Sources. *International Studies Quarterly* 38:91-119.

Schrodt, Philip A. , Shannon G. Davis & Judith L. Weddle. 1994. Political Science: KEDS—A Program for the Machine Coding of Event Data. *Social Science Computer Review* 12,3: 561-588.

Schrodt, Philip A. & Deborah J. Gerner. 1994. Validity assessment of a machine-coded event data set for the Middle East, 1982-1992. *American Journal of Political Science*, 38, 825-854.

<sup>2</sup> In Macintosh OS-X, you can also just double-click the `KEDS_count.class` icon without first opening the Terminal

<sup>3</sup> The program *seems* to run in Windows, though further verification of this by someone more familiar with that environment would be helpful. Make sure that your command and data files are in Windows rather than Unix file format—the versions in the folder on the Web are in Unix format.

<sup>4</sup> Other days can be used by changing the default value of the variable `firstWeekDay` in the program

<sup>5</sup>Goldstein, Joshua S. 1992. A Conflict-Cooperation Scale for WEIS Events Data. *Journal of Conflict Resolution* 36: 369-385.

<sup>6</sup> Such file names cause endless confusion, so avoid them under any circumstances.

<sup>7</sup> Including itself; if you only want the interactions of the source with target other than itself, compile both combinations (e.g. JOR/JOR \*\*\*) and then take the difference of the two totals.

## Example 1: PANDA codes

-FORMAT  
PREFIX=TEST1.  
DATE=1  
SOURCE=2  
TARGET=4  
EVENT=6  
FREQ=BIWEEKLY  
LABEL=dd/MM/yy  
-CODES  
10:[0.6]  
11:[0.6]  
12:[0.6]  
13:[2]  
14:[0.6]  
50:[0]  
51:[-0.1]  
52:[0]  
53:[-0.2]  
54:[0]  
55:[0]  
56:[0]  
90:[1]  
91:[1]  
92:[1.9]  
93:[2.8]  
94:[1]  
130:[3.5]  
131:[3.4]  
132:[3.6]  
170:[4.8]  
171:[4.5]  
172:[5.2]  
173:[4.5]  
174:[4.5]  
210:[2.1]  
211:[1.8]  
212:[2.5]  
213:[-1.1]  
214:[5.4]  
220:[2.1]  
221:[2.1]  
222:[2.1]  
223:[2.9]  
250:[7.4]  
251:[7.4]  
252:[8.3]  
253:[6.5]  
290:[4.5]  
291:[6.5]  
292:[3]  
293:[7]

## SAMPLE COMMAND FILES

294:[7]  
330:[3.3]  
331:[1]  
332:[3.4]  
333:[3.4]  
334:[3.4]  
335:[3.4]  
336:[-0.1]  
341:[3.3]  
370:[0.7]  
371:[1.5]  
372:[-0.1]  
410:[-4]  
411:[-4]  
412:[-4]  
413:[-4]  
414:[-4]  
420:[-4]  
421:[-4]  
450:[-2.8]  
451:[-2.2]  
452:[-3.4]  
453:[-2.8]  
454:[-2.8]  
490:[-2.2]  
491:[-1.9]  
492:[-2.4]  
493:[-2.2]  
530:[-1]  
531:[-0.9]  
532:[-1.1]  
570:[-4.9]  
571:[-4.9]  
572:[-4.9]  
610:[-3]  
611:[-3]  
612:[-3]  
650:[-4.4]  
651:[-4.4]  
652:[-5.8]  
653:[-7]  
654:[-6.9]  
690:[-5.2]  
691:[-5.2]  
692:[-7.6]  
693:[-5.2]  
730:[-2.2]  
731:[-2.2]  
732:[-4.1]  
733:[-5.6]  
734:[-3.8]  
735:[-7]  
736:[-2.2]  
740:[-2.2]

741:[-2.2]  
742:[-2.2]  
750:[-2.2]  
751:[-2.2]  
770:[-5]  
771:[-5]  
772:[-4.9]  
773:[-5]  
810:[-7.2]  
811:[-9.2]  
812:[-4.4]  
813:[-7.2]  
814:[-7.2]  
850:[-8.3]  
851:[-8.3]  
860:[-8.7]  
861:[-8.7]  
862:[-8.7]  
863:[-8.7]  
870:[-8.7]  
871:[-8.7]  
880:[-10]  
881:[-10]  
882:[-10]  
-FILES  
PAL88.EVENTS  
PAL89.EVENTS  
PAL90.EVENTS  
PAL91.EVENTS  
-COUNT  
85\*  
86\*  
87\*  
880  
881  
882  
-DYADS  
PAL\*/ISR LEB\* SYR JOR  
PAL\*/USR \*\*\*  
JOR/ISR USA PAL  
-FINISH

**Example 2: Goldstein scaling of WEIS codes**

10:[1.0]	YIELD	121:[-2.2]	CRITICIZE
11:[0.6]	SURRENDER	122:[-3.4]	DENIGRATE
12:[0.6]	RETREAT	123:[-1.0]	INVESTIGATE
13:[2.0]	RETRACT	130 [-2.0]	PROTEST
14:[3.0]	ACCOMODATE, CEASEFIRE	131:[-1.9]	MAKE COMPLAINT
15:[5.0]	CEDE POWER	132:[-2.4]	FORMAL PROTEST
20:[0.0]	COMMENT	133:[-1.0]	SYMBOLIC ACT
21:[-0.1]	DECLINE COMMENT	140:[-1.0]	DENY
22:[-0.4]	PESSIMIST COMMENT	141:[-0.9]	DENY ACCUSATION
23:[-0.2]	NEUTRAL COMMENT	142:[-1.1]	DENY ACTION
24:[0.4]	OPTIMIST COMMENT	150:[-4.9]	DEMAND
25:[0.0]	EXPLAIN POSITION	151:[-4.0]	ISSUE COMMAND
26:[1.0]	APPOINT OR ELECT	152:[-5.0]	CLAIM RIGHTS
27:[-2.0]	ALTER RULES	160:[-3.0]	WARN
30:[1.0]	CONSULT	161:[-3.0]	WARN POLICIES
31:[1.0]	MEET	162:[-3.0]	WARN OF PROBLEM
32:[1.9]	VISIT	170:[-6.0]	THREATEN
33:[2.8]	RECEIVE	171:[-4.4]	UNSPECIF THREAT
34:[1.0]	VOTE, ELECT	172:[-5.8]	NONMIL TRHEAT
40:[3.5]	APPROVE	173:[-7.0]	SPECIF THREAT
41:[3.4]	PRAISE	174:[-6.9]	ULTIMATUM
42:[3.6]	ENDORSE	180:[-6.0]	DEMONSTRATE
43:[3.8]	RALLY	181:[-5.2]	NONMIL DEMO
50:[4.0]	PROMISE	182:[-7.6]	MILITARY DEMO
51:[4.5]	PROM POLICY SUPPORT	190:[-4.0]	REDUCE RELATIONS
52:[5.2]	PROM MATERIAL SUPPORT	191:[-2.2]	CANCEL EVENT
53:[4.5]	PROM OTHER SUPPORT	192:[-4.1]	CUT ROUTINE ACT
54:[2.8]	ASSURE	193:[-5.6]	CUT AID
55:[4.5]	PROMISE RIGHTS	194:[-3.8]	HALT NEGOTIATION
60:[2.0]	GRANT	195:[-7.0]	BREAK DIPL RELAT
61:[1.8]	APOLOGIZE	196:[-6.0]	STRIKE
62:[2.5]	STATE INVITATION	197:[-5.0]	CENSOR
63:[-1.1]	GRANT ASYLUM	198:[-4.0]	WITHDRAW FROM
64:[5.4]	GRANT PRIVILEGE	200:[-5.0]	EXPEL
65:[2.9]	TRUCE	201:[-5.0]	EXPEL PERSONNEL
66:[1.9]	RELEASE	202:[-4.9]	EXPEL GROUP
67:[3.5]	GRANT POSITION	203:[-5.0]	BAN ORGANIZATION
70:[7.0]	REWARD	210:[-5.0]	SEIZE
71:[7.4]	EXTEND ECON AID	211:[-9.2]	SEIZE POSSESSION
72:[8.3]	EXTEND MIL AID	212:[-4.4]	ARREST PERSON
73:[6.5]	GIVE OTHER ASSIST	213:[-9.0]	HIJACK KIDNAP
80:[6.0]	AGREE	220:[-9.0]	FORCE
81:[6.5]	MAKE AGREEMENT	221:[-8.3]	NONINJURY DESTR
82:[3.0]	AGREE FUTURE ACT	222:[-8.7]	NONMIL DESTR
83:[6.0]	ALLY	223:[-10.0]	MIL ENGAGEMENT
84:[10.0]	MERGE, INTEGRATE	224:[-7.0]	RIOT
90:[3.0]	REQUEST	225:[-9.0]	ASSASSINATE TORTURE
91:[0.1]	ASK INFORMATION	226:[-8.0]	COUP ATTEMPTED
92:[3.4]	ASK POLICY AID		
93:[3.4]	ASK MATERIAL AID		
94:[-0.1]	CALL FOR		
95:[1.2]	PLEAD		
96:[-0.3]	REQUEST POLICY CHANGE		
97:[-0.3]	REQUEST RIGHTS		
100:[0.5]	PROPOSE		
101:[1.5]	OFFER PROPOSAL		
102:[-0.1]	URGE		
110:[-4.0]	REJECT		
111:[-4.0]	TURN DOWN		
112:[-4.0]	REFUSE		
113:[-5.0]	DEFY LAW		
120:[-2.0]	ACCUSE		

**Example 3: CAMEO scaling**

```
## CAMEO SCALE: VERSION 0.5B1 [07.03.21]
## Philip Schrodtt, schrodtt@ku.edu

01:[0.0] MAKE PUBLIC STATEMENT
010:[0.0] Make statement, not specified below
011:[-0.1] Decline comment
012:[-0.4] Make pessimistic comment
013:[0.4] Make optimistic comment
014:[0.0] Consider policy option
015:[0.0] Acknowledge or claim responsibility
016:[3.4] Make empathetic comment
017:[0.0] Engage in symbolic act
018:[3.4] Express accord

02:[3.0] APPEAL
020:[3.0] Appeal, not specified below
021:[3.4] Appeal for cooperation, not specified below
    0211:[3.4] Appeal for diplomatic cooperation
    0212:[3.4] Appeal for material cooperation
022:[3.4] Appeal for policy support
023:[3.4] Appeal for aid, not specified below
    0231:[3.4] Appeal for economic aid
    0232:[3.4] Appeal for military aid
    0233:[3.4] Appeal for humanitarian aid
    0234:[3.4] Appeal for military protection or peacekeeping
024:[-0.3] Appeal for political reform, not specified below
    0241:[-0.3] Appeal for change in leadership
    0242:[-0.3] Appeal for policy change
    0243:[-0.3] Appeal for rights
    0244:[-0.3] Appeal for change in institutions, regime
025:[-0.3] Appeal to yield
026:[4.0] Appeal to others to meet or negotiate
027:[4.0] Appeal to others to settle dispute
028:[4.0] Appeal to others to engage in mediation

03:[4.0] EXPRESS INTENT TO COOPERATE
030:[4.0] Express intent to cooperate, not specified below
031:[5.2] Express intent to engage in material cooperation, not specified below
    0311:[5.2] Express intent to cooperate economically
    0312:[5.2] Express intent to cooperate militarily
032:[4.5] Express intent to provide policy support
033:[5.2] Express intent to provide aid, not specified below
    0331:[5.2] Express intent to provide economic aid
    0332:[5.2] Express intent to provide military aid
    0333:[5.2] Express intent to provide humanitarian aid
    0334:[6.0] Express intent to provide military protection or peacekeeping
034:[7.0] Express intent to bring political reform, not specified below
    0341:[7.0] Express intent to change leadership
    0342:[7.0] Express intent to change policy
    0343:[7.0] Express intent to provide rights
    0344:[7.0] Express intent to change institutions, regime
035:[7.0] Express intent to yield, not specified below
    0351:[7.0] Express intent to ease administrative sanctions
    0352:[7.0] Express intent to stop protests
    0353:[7.0] Express intent to accede to political demands
    0354:[7.0] Express intent to release persons or property
    0355:[7.0] Express intent to ease economic sanctions, boycott, or embargo
    0356:[7.0] Express intent allow international involvement (not mediation)
    0357:[7.0] Express intent to de-escalate military engagement
036:[4.0] Express intent to meet or negotiate
037:[5.0] Express intent to settle dispute
038:[7.0] Express intent to accept mediation
039:[5.0] Express intent to mediate
```

04:[1.0] CONSULT  
040:[1.0] Consult, not specified below  
041:[1.0] Discuss by telephone  
042:[1.9] Make a visit  
043:[2.8] Host a visit  
044:[2.5] Meet at a "third" location  
045:[5.0] Mediate  
046:[7.0] Engage in negotiation

05:[3.5] ENGAGE IN DIPLOMATIC COOPERATION  
050:[3.5] Engage in diplomatic cooperation, not specified below  
051:[3.4] Praise or endorse  
052:[3.5] Defend verbally  
053:[3.8] Rally support on behalf of  
054:[6.0] Grant diplomatic recognition  
055:[7.0] Apologize  
056:[7.0] Forgive  
057:[8.0] Sign formal agreement

06:[6.0] ENGAGE IN MATERIAL COOPERATION  
060:[6.0] Engage in material cooperation, not spec below  
061:[6.4] Cooperate economically  
062:[7.4] Cooperate militarily  
063:[7.4] Engage in judicial cooperation  
064:[7.0] Share intelligence or information

07:[7.0] PROVIDE AID  
070:[7.0] Provide aid, not specified below  
071:[7.4] Provide economic aid  
072:[8.3] Provide military aid  
073:[7.4] Provide humanitarian aid  
074:[8.5] Provide military protection or peacekeeping  
075:[7.0] Grant asylum

08:[5.0] YIELD  
080:[5.0] Yield, not specified below  
081:[5.0] Ease administrative sanctions, not specified below  
0811:[5.0] Ease restrictions on freedoms of speech and expression  
0812:[5.0] Ease ban on political parties or politicians  
0813:[5.0] Ease curfew  
0814:[5.0] Ease state of emergency or martial law  
082:[5.0] Ease popular protest  
083:[5.0] Accede to demands for political reform  
0831:[5.0] Accede to demands for change in leadership  
0832:[5.0] Accede to demands for change in policy  
0833:[5.0] Accede to demands for rights  
0834:[5.0] Accede to demands for change in institutions, regime  
084:[7.0] Return, release, not specified below  
0841:[7.0] Return, release person(s)  
0842:[7.0] Return, release property  
085:[7.0] Ease economic sanctions, boycott, embargo  
086:[9.0] Allow international involvement  
0861:[9.0] Receive deployment of peacekeepers  
0862:[9.0] Receive inspectors  
0863:[9.0] Allow delivery of humanitarian aid  
087:[9.0] De-escalate military engagement  
0871:[9.0] Declare truce, ceasefire  
0872:[9.0] Ease military blocka[-2.0]de  
0873:[9.0] Demobilize armed forces  
0874:[10.0] Retreat or surrender militarily

09:[-2.0] INVESTIGATE  
090:[-2.0] Investigate, not specified below  
091:[-2.0] Investigate crime, corruption

092:[-2.0] Investigate human rights abuses  
093:[-2.0] Investigate military action  
094:[-2.0] Investigate war crimes

10:[-5.0] DEMAND  
100:[-5.0] Demand, not specified below  
101:[-5.0] Demand information, investigation  
102:[-5.0] Demand policy support  
103:[-5.0] Demand aid, protection, or peacekeeping  
104:[-5.0] Demand political reform, not specified below  
    1041:[-5.0] Demand change in leadership  
    1042:[-5.0] Demand policy change  
    1043:[-5.0] Demand rights  
    1044:[-5.0] Demand change in institutions, regime  
105:[-5.0] Demand mediation  
106:[-5.0] Demand withdrawal  
107:[-5.0] Demand ceasefire  
108:[-5.0] Demand meeting, negotiation

11:[-2.0] DISAPPROVE  
110:[-2.0] Disapprove, not specified below  
111:[-2.0] Criticize or denounce  
112:[-2.0] Accuse, not specified below  
    1121:[-2.0] Accuse of crime, corruption  
    1122:[-2.0] Accuse of human rights abuses  
    1123:[-2.0] Accuse of aggression  
    1124:[-2.0] Accuse of war crimes  
    1125:[-2.0] Accuse of espionage, treason  
113:[-2.0] Rally opposition against  
114:[-2.0] Complain officially  
115:[-2.0] Bring lawsuit against

12:[-4.0] REJECT  
120:[-4.0] Reject, not specified below  
121:[-4.0] Reject proposal, not specified below  
    1211:[-4.0] Reject ceasefire, withdrawal  
    1212:[-4.0] Reject peacekeeping  
    1213:[-4.0] Reject settlement  
122:[-4.0] Reject request for material aid  
123:[-4.0] Reject demands for political reform  
    1231:[-4.0] Reject demands for change in leadership  
    1232:[-4.0] Reject demands for policy change  
    1233:[-4.0] Reject demand for rights  
    1234:[-4.0] Reject demand change in institutions, regime  
124:[-5.0] Reject proposal to meet, discuss, or negotiate  
125:[-5.0] Reject mediation  
126:[-5.0] Defy norms, law  
127:[-5.0] Reject accusation, deny responsibility  
128:[-5.0] Veto

13:[-6.0] THREATEN  
130:[-4.4] Threaten, not specified below  
131:[-5.8] Threaten non-force, not specified below  
    1311:[-5.8] Threaten to reduce or stop aid  
    1312:[-5.8] Threaten to boycott, embargo, or sanction  
    1313:[-5.8] Threaten to reduce or break relations  
132:[-5.8] Threaten with administrative sanctions, not specified below  
    1321:[-5.8] Threaten to impose restrictions on freedoms of speech and expression  
    1322:[-5.8] Threaten to ban political parties or politicians  
    1323:[-5.8] Threaten to impose curfew  
    1324:[-5.8] Threaten to impose state of emergency or martial law  
133:[-5.8] Threaten collective dissent  
134:[-5.8] Threaten to halt negotiations  
135:[-5.8] Threaten to halt mediation  
136:[-7.0] Threaten to expel or withdraw peacekeepers

137:[-7.0] Threaten with violent repression  
138:[-7.0] Threaten to use military force, not specified below  
1381:[-7.0] Threaten blockade  
1382:[-7.0] Threaten occupation  
1383:[-7.0] Threaten unconventional violence  
1384:[-7.0] Threaten conventional attack  
1385:[-7.0] Threaten attack with WMD  
139:[-7.0] Give ultimatum

14:[-6.5] PROTEST  
140:[-6.5] Engage in popular protest, not specified below  
141:[-6.5] Demonstrate or rally  
1411:[-6.5] Demonstrate for change in leadership  
1412:[-6.5] Demonstrate for policy change  
1413:[-6.5] Demonstrate for rights  
1414:[-6.5] Demonstrate for change in institutions, regime  
142:[-6.5] Conduct hunger strike, not specified below  
1421:[-6.5] Conduct hunger strike for change in leadership  
1422:[-6.5] Conduct hunger strike for policy change  
1423:[-6.5] Conduct hunger strike for rights  
1424:[-6.5] Conduct hunger strike for change in institutions, regime  
143:[-6.5] Conduct strike or boycott, not specified below  
1431:[-6.5] Conduct strike or boycott for change in leadership  
1432:[-6.5] Conduct strike or boycott for policy change  
1433:[-6.5] Conduct strike or boycott for rights  
1434:[-6.5] Conduct strike or boycott for change in institutions, regime  
144:[-7.5] Obstruct passage, block  
1441:[-7.5] Obstruct passage to demand change in leadership  
1442:[-7.5] Obstruct passage to demand policy change  
1443:[-7.5] Obstruct passage to demand rights  
1444:[-7.5] Obstruct passage to demand change in institutions, regime  
145:[-7.5] Protest violently, riot  
1451:[-7.5] Obstruct passage to demand change in leadership  
1452:[-7.5] Obstruct passage to demand policy change  
1453:[-7.5] Obstruct passage to demand rights  
1454:[-7.5] Obstruct passage to demand change in institutions, regime

15:[-7.2] EXHIBIT FORCE POSTURE  
150:[-7.2] Demonstrate military or police power, not specified below  
151:[-7.2] Increase police alert status  
152:[-7.2] Increase military alert status  
153:[-7.2] Mobilize or increase police power  
154:[-7.2] Mobilize or increase armed forces

16:[-4.0] REDUCE RELATIONS  
160:[-4.0] Reduce relations, not specified below  
161:[-4.0] Reduce or break diplomatic relations  
162:[-5.6] Reduce or stop aid, not specified below  
1621:[-5.6] Reduce or stop economic assistance  
1622:[-5.6] Reduce or stop military assistance  
1623:[-5.6] Reduce or stop humanitarian assistance  
163:[-6.5] Halt negotiations  
164:[-7.0] Expel or withdraw, not specified below  
1641:[-7.0] Expel or withdraw peacekeepers  
1642:[-7.0] Expel or withdraw inspectors, observers  
1643:[-7.0] Expel or withdraw aid agencies  
165:[-7.0] Halt mediation  
166:[-8.0] Impose embargo, boycott, or sanctions

17:[-7.0] COERCE  
170:[-7.0] Coerce, not specified below  
171:[-9.2] Seize or damage property, not specified below  
1711:[-9.2] Confiscate property  
1712:[-9.2] Destroy property  
172:[-5.0] Impose administrative sanctions, not specified below

1721:[-5.0] Impose restrictions on freedoms of speech and expression  
1722:[-5.0] Ban political parties or politicians  
1723:[-5.0] Impose curfew  
1724:[-5.0] Impose state of emergency or martial law  
173:[-5.0] Arrest, detain, or charge with legal action  
174:[-5.0] Expel or deport individuals  
175:[-9.0] Use violent repression

18:[-9.0] ASSAULT  
180:[-9.0] Use unconventional violence, not specified below  
181:[-9.0] Abduct, hijack, or take hostage  
182:[-9.5] Physically assault, not specified below  
1821:[-9.0] Sexually assault  
1822:[-9.0] Torture  
1823:[-10.0] Kill by physical assault  
183:[-10.0] Conduct suicide, car, or other non-military bombing, not spec below  
1831:[-10.0] Carry out suicide bombing  
1832:[-10.0] Carry out car bombing  
1833:[-10.0] Carry out roadside bombing  
184:[-8.0] Use as human shield  
185:[-8.0] Attempt to assassinate  
186:[-10.0] Assassinate

19:[-10.0] FIGHT  
190:[-10.0] Use conventional military force, not specified below  
191:[-9.5] Impose blockade, restrict movement  
192:[-9.5] Occupy territory  
193:[-10.0] Fight with small arms and light weapons  
194:[-10.0] Fight with artillery and tanks  
195:[-10.0] Employ aerial weapons  
196:[-9.5] Violate ceasefire

20:[-10.0] ENGAGE IN UNCONVENTIONAL MASS VIOLENCE  
200:[-10.0] Engage in unconventional mass violence, not specified below  
201:[-9.5] Engage in mass expulsion  
202:[-10.0] Engage in mass killings  
203:[-10.0] Engage in ethnic cleansing  
204:[-10.0] Use weapons of mass destruction, not specified below  
2041:[-10.0] Use chemical, biological, or radiological weapons  
2042:[-10.0] Detonate nuclear weapons