NAME
luach – typeset a Hebrew calendar.

SYNOPSIS
luach [−ehnidgj] [−.*request***]** *year* ...

DESCRIPTION
luach typesets the Hebrew/Gregorian calendars for a list of Hebrew years. To generate a printout, its output should be piped through *troff* . Each Hebrew month is printed in two lines, with the latter describing the corresponding partial Gregorian months. Days in the week are properly aligned. Jewish holidays are high-lighted.

Optionally, the two-line printout of each month may be followed by a third line, describing the Pentateuch reading sequence (see appendix). Saturdays are marked by the sequence number of the portion being read in that week. Saturdays in which two consecutive portions are read, are marked by the appending a plus sign to the first sequence number. Holiday Saturdays, in which the reading is out of the sequence, are marked by asterisks.

OPTIONS
The options, which may be given in any order, and, unless reset, apply to all the following *year* arguments, are:

−e   Typeset the calendar in English (the default).

−h   Typeset the calendar in Hebrew.

−n   Do not generate a reading sequence (the default).

−i   Generate a reading sequence used in Israel.

−d   Generate a reading sequence used in the Diaspora, and highlight the additional festival days.

−g   Generate Gregorian dates for Hebrew dates starting at 19 Tishri 5343 (the default). Note that the Gregorian calendar became official in Great Britain and its colonies (including North America) in 6 Tishri 5513, and in Russia in 1 Adar 5678.

−j   Generate Julian dates.

−.*request*
Issue a *troff* request before processing the next year. As an example, the setting **−.fam\ H** (when used in conjunction with GNU's troff) typesets the calendar in Helvetica.

SEE ALSO
taarich(1)

Har'El, Z., *Gauss Formula for the Julian Date of Passover*.

Har'El, Z., *The Torah Reading Sequence*.

BUGS
There is no way to highlight the additional festival days observed in the Diaspora without printing the read-ing sequence.

AVAILABILITY
luach and the Hebrew *groff* fonts are available by anonymous ftp from *ftp.math.technion.ac.il* (132.68.115.2).

AUTHOR
Dr. Zvi Har'El,
Department of Mathematics,

Technion, Israel Institute of Technology,
Haifa 32000, Israel.
E-mail: rl@math.technion.ac.il

APPENDIX

Pentateuch Reading Sequence			
Portion	**Verses**	**Portion**	**Verses**
1 Bereshit	*Genesis* 1:1-6:8	28 Metzora	14:1-15:33
2 Noah	6:9-11:32	29 Acharei-Mot	16:1-18:30
3 Lech-Lecha	12:1-17:27	30 Kedoshim	19:1-20:27
4 Vayera	18:1-22:24	31 Emor	21:1-24:23
5 Chayei-Sarah	23:1-25:18	32 Behar	25:1-26:2
6 Toldot	25:19-28:9	33 Bechukotai	26:3-27:34
7 Vayetze	28:10-32:2	34 Bamidbar	*Numbers* 1:1-4:20
8 Vayishlach	32:3-36:43	35 Naso	4:21-7:89
9 Vayeshev	37:1-40:23	36 Beha'alotcha	8:1-12:15
10 Miketz	41:1-44:17	37 Shelach	13:1-15:15
11 Vayigash	44:18-47:27	38 Korach	16:1-18:32
12 Vayechi	47:28-50:26	39 Chukat	19:1-22:1
13 Shemot	*Exodus* 1:1-6:1	40 Balak	22:2-25:9
14 Vaera	6:2-9:35	41 Pinchas	25:10-30:1
15 Bo	10:1-13:16	42 Matot	30:2-32:42
16 Beshalach	13:17-17:16	43 Mase'ei	33:1-36:13
17 Yitro	18:1-20:23	44 Devarim	*Deutronomy* 1:1-3:22
18 Mishpatim	21:1-24:18	45 Vaetchanan	3:23-7:11
19 Teruma	25:1-27:19	46 Ekev	7:12-11:25
20 Tetzave	27:20-30:10	47 Re'e	11:26-16:17
21 Ki-Tisa	30:11-34:35	48 Shoftim	16:18-21:9
22 Vayakhel	35:1-38:20	49 Ki-Tetze	21:10-25:19
23 Pekudei	38:21-40:38	50 Ki-Tavo	26:1-29:8
24 Vayikra	*Leviticus* 1:1-5:26	51 Nitzavim	29:9-30:20
25 Tzav	6:1-8:36	52 Vayelech	31:1-31:30
26 Shemini	9:1-11:47	53 Ha'azinu	32:1-32:52
27 Tazri'a	12:1-13:59	54 Vezot-Habracha	33:1-34:12