# <pre>

# @(#)solar87 8.2

# This file is in the public domain, so clarified as of

# 2009-05-17 by Arthur David Olson.

# So much for footnotes about Saudi Arabia.

# Apparent noon times below are for Riyadh; your mileage will vary.

# Times were computed using formulas in the U.S. Naval Observatory's

# Almanac for Computers 1987; the formulas "will give EqT to an accuracy of

# [plus or minus two] seconds during the current year."

#

# Rounding to the nearest five seconds results in fewer than

# 256 different "time types"--a limit that's faced because time types are

# stored on disk as unsigned chars.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule sol87 1987 only - Jan 1 12:03:20s -0:03:20 -

Rule sol87 1987 only - Jan 2 12:03:50s -0:03:50 -

Rule sol87 1987 only - Jan 3 12:04:15s -0:04:15 -

Rule sol87 1987 only - Jan 4 12:04:45s -0:04:45 -

Rule sol87 1987 only - Jan 5 12:05:10s -0:05:10 -

Rule sol87 1987 only - Jan 6 12:05:40s -0:05:40 -

Rule sol87 1987 only - Jan 7 12:06:05s -0:06:05 -

Rule sol87 1987 only - Jan 8 12:06:30s -0:06:30 -

Rule sol87 1987 only - Jan 9 12:06:55s -0:06:55 -

Rule sol87 1987 only - Jan 10 12:07:20s -0:07:20 -

Rule sol87 1987 only - Jan 11 12:07:45s -0:07:45 -

Rule sol87 1987 only - Jan 12 12:08:10s -0:08:10 -

Rule sol87 1987 only - Jan 13 12:08:30s -0:08:30 -

Rule sol87 1987 only - Jan 14 12:08:55s -0:08:55 -

Rule sol87 1987 only - Jan 15 12:09:15s -0:09:15 -

Rule sol87 1987 only - Jan 16 12:09:35s -0:09:35 -

Rule sol87 1987 only - Jan 17 12:09:55s -0:09:55 -

Rule sol87 1987 only - Jan 18 12:10:15s -0:10:15 -

Rule sol87 1987 only - Jan 19 12:10:35s -0:10:35 -

Rule sol87 1987 only - Jan 20 12:10:55s -0:10:55 -

Rule sol87 1987 only - Jan 21 12:11:10s -0:11:10 -

Rule sol87 1987 only - Jan 22 12:11:30s -0:11:30 -

Rule sol87 1987 only - Jan 23 12:11:45s -0:11:45 -

Rule sol87 1987 only - Jan 24 12:12:00s -0:12:00 -

Rule sol87 1987 only - Jan 25 12:12:15s -0:12:15 -

Rule sol87 1987 only - Jan 26 12:12:30s -0:12:30 -

Rule sol87 1987 only - Jan 27 12:12:40s -0:12:40 -

Rule sol87 1987 only - Jan 28 12:12:55s -0:12:55 -

Rule sol87 1987 only - Jan 29 12:13:05s -0:13:05 -

Rule sol87 1987 only - Jan 30 12:13:15s -0:13:15 -

Rule sol87 1987 only - Jan 31 12:13:25s -0:13:25 -

Rule sol87 1987 only - Feb 1 12:13:35s -0:13:35 -

Rule sol87 1987 only - Feb 2 12:13:40s -0:13:40 -

Rule sol87 1987 only - Feb 3 12:13:50s -0:13:50 -

Rule sol87 1987 only - Feb 4 12:13:55s -0:13:55 -

Rule sol87 1987 only - Feb 5 12:14:00s -0:14:00 -

Rule sol87 1987 only - Feb 6 12:14:05s -0:14:05 -

Rule sol87 1987 only - Feb 7 12:14:10s -0:14:10 -

Rule sol87 1987 only - Feb 8 12:14:10s -0:14:10 -

Rule sol87 1987 only - Feb 9 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 10 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 11 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 12 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 13 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 14 12:14:15s -0:14:15 -

Rule sol87 1987 only - Feb 15 12:14:10s -0:14:10 -

Rule sol87 1987 only - Feb 16 12:14:10s -0:14:10 -

Rule sol87 1987 only - Feb 17 12:14:05s -0:14:05 -

Rule sol87 1987 only - Feb 18 12:14:00s -0:14:00 -

Rule sol87 1987 only - Feb 19 12:13:55s -0:13:55 -

Rule sol87 1987 only - Feb 20 12:13:50s -0:13:50 -

Rule sol87 1987 only - Feb 21 12:13:45s -0:13:45 -

Rule sol87 1987 only - Feb 22 12:13:35s -0:13:35 -

Rule sol87 1987 only - Feb 23 12:13:30s -0:13:30 -

Rule sol87 1987 only - Feb 24 12:13:20s -0:13:20 -

Rule sol87 1987 only - Feb 25 12:13:10s -0:13:10 -

Rule sol87 1987 only - Feb 26 12:13:00s -0:13:00 -

Rule sol87 1987 only - Feb 27 12:12:50s -0:12:50 -

Rule sol87 1987 only - Feb 28 12:12:40s -0:12:40 -

Rule sol87 1987 only - Mar 1 12:12:30s -0:12:30 -

Rule sol87 1987 only - Mar 2 12:12:20s -0:12:20 -

Rule sol87 1987 only - Mar 3 12:12:05s -0:12:05 -

Rule sol87 1987 only - Mar 4 12:11:55s -0:11:55 -

Rule sol87 1987 only - Mar 5 12:11:40s -0:11:40 -

Rule sol87 1987 only - Mar 6 12:11:25s -0:11:25 -

Rule sol87 1987 only - Mar 7 12:11:15s -0:11:15 -

Rule sol87 1987 only - Mar 8 12:11:00s -0:11:00 -

Rule sol87 1987 only - Mar 9 12:10:45s -0:10:45 -

Rule sol87 1987 only - Mar 10 12:10:30s -0:10:30 -

Rule sol87 1987 only - Mar 11 12:10:15s -0:10:15 -

Rule sol87 1987 only - Mar 12 12:09:55s -0:09:55 -

Rule sol87 1987 only - Mar 13 12:09:40s -0:09:40 -

Rule sol87 1987 only - Mar 14 12:09:25s -0:09:25 -

Rule sol87 1987 only - Mar 15 12:09:10s -0:09:10 -

Rule sol87 1987 only - Mar 16 12:08:50s -0:08:50 -

Rule sol87 1987 only - Mar 17 12:08:35s -0:08:35 -

Rule sol87 1987 only - Mar 18 12:08:15s -0:08:15 -

Rule sol87 1987 only - Mar 19 12:08:00s -0:08:00 -

Rule sol87 1987 only - Mar 20 12:07:40s -0:07:40 -

Rule sol87 1987 only - Mar 21 12:07:25s -0:07:25 -

Rule sol87 1987 only - Mar 22 12:07:05s -0:07:05 -

Rule sol87 1987 only - Mar 23 12:06:50s -0:06:50 -

Rule sol87 1987 only - Mar 24 12:06:30s -0:06:30 -

Rule sol87 1987 only - Mar 25 12:06:10s -0:06:10 -

Rule sol87 1987 only - Mar 26 12:05:55s -0:05:55 -

Rule sol87 1987 only - Mar 27 12:05:35s -0:05:35 -

Rule sol87 1987 only - Mar 28 12:05:15s -0:05:15 -

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Rule sol87 1987 only - Mar 30 12:04:40s -0:04:40 -

Rule sol87 1987 only - Mar 31 12:04:25s -0:04:25 -

Rule sol87 1987 only - Apr 1 12:04:05s -0:04:05 -

Rule sol87 1987 only - Apr 2 12:03:45s -0:03:45 -

Rule sol87 1987 only - Apr 3 12:03:30s -0:03:30 -

Rule sol87 1987 only - Apr 4 12:03:10s -0:03:10 -

Rule sol87 1987 only - Apr 5 12:02:55s -0:02:55 -

Rule sol87 1987 only - Apr 6 12:02:35s -0:02:35 -

Rule sol87 1987 only - Apr 7 12:02:20s -0:02:20 -

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Rule sol87 1987 only - Apr 9 12:01:45s -0:01:45 -

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Rule sol87 1987 only - Apr 12 12:00:55s -0:00:55 -

Rule sol87 1987 only - Apr 13 12:00:40s -0:00:40 -

Rule sol87 1987 only - Apr 14 12:00:25s -0:00:25 -

Rule sol87 1987 only - Apr 15 12:00:10s -0:00:10 -

Rule sol87 1987 only - Apr 16 11:59:55s 0:00:05 -

Rule sol87 1987 only - Apr 17 11:59:45s 0:00:15 -

Rule sol87 1987 only - Apr 18 11:59:30s 0:00:30 -

Rule sol87 1987 only - Apr 19 11:59:15s 0:00:45 -

Rule sol87 1987 only - Apr 20 11:59:05s 0:00:55 -

Rule sol87 1987 only - Apr 21 11:58:50s 0:01:10 -

Rule sol87 1987 only - Apr 22 11:58:40s 0:01:20 -

Rule sol87 1987 only - Apr 23 11:58:25s 0:01:35 -

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Rule sol87 1987 only - Apr 26 11:57:55s 0:02:05 -

Rule sol87 1987 only - Apr 27 11:57:45s 0:02:15 -

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Rule sol87 1987 only - May 4 11:56:50s 0:03:10 -

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Rule sol87 1987 only - May 27 11:57:00s 0:03:00 -

Rule sol87 1987 only - May 28 11:57:10s 0:02:50 -

Rule sol87 1987 only - May 29 11:57:15s 0:02:45 -

Rule sol87 1987 only - May 30 11:57:25s 0:02:35 -

Rule sol87 1987 only - May 31 11:57:30s 0:02:30 -

Rule sol87 1987 only - Jun 1 11:57:40s 0:02:20 -

Rule sol87 1987 only - Jun 2 11:57:50s 0:02:10 -

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Rule sol87 1987 only - Jun 5 11:58:20s 0:01:40 -

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Rule sol87 1987 only - Jun 24 12:02:15s -0:02:15 -

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Rule sol87 1987 only - Jun 28 12:03:05s -0:03:05 -

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Rule sol87 1987 only - Jul 3 12:04:05s -0:04:05 -

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Rule sol87 1987 only - Jul 7 12:04:45s -0:04:45 -

Rule sol87 1987 only - Jul 8 12:04:55s -0:04:55 -

Rule sol87 1987 only - Jul 9 12:05:05s -0:05:05 -

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Rule sol87 1987 only - Aug 7 12:05:50s -0:05:50 -

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Rule sol87 1987 only - Aug 9 12:05:35s -0:05:35 -

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Rule sol87 1987 only - Aug 30 12:00:50s -0:00:50 -

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Rule sol87 1987 only - Sep 1 12:00:10s -0:00:10 -

Rule sol87 1987 only - Sep 2 11:59:50s 0:00:10 -

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Rule sol87 1987 only - Oct 1 11:49:50s 0:10:10 -

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Rule sol87 1987 only - Oct 11 11:46:55s 0:13:05 -

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Rule sol87 1987 only - Oct 31 11:43:40s 0:16:20 -

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Rule sol87 1987 only - Nov 4 11:43:35s 0:16:25 -

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Rule sol87 1987 only - Nov 25 11:46:50s 0:13:10 -

Rule sol87 1987 only - Nov 26 11:47:10s 0:12:50 -

Rule sol87 1987 only - Nov 27 11:47:25s 0:12:35 -

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Rule sol87 1987 only - Dec 3 11:49:35s 0:10:25 -

Rule sol87 1987 only - Dec 4 11:50:00s 0:10:00 -

Rule sol87 1987 only - Dec 5 11:50:25s 0:09:35 -

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Rule sol87 1987 only - Dec 7 11:51:15s 0:08:45 -

Rule sol87 1987 only - Dec 8 11:51:40s 0:08:20 -

Rule sol87 1987 only - Dec 9 11:52:05s 0:07:55 -

Rule sol87 1987 only - Dec 10 11:52:30s 0:07:30 -

Rule sol87 1987 only - Dec 11 11:53:00s 0:07:00 -

Rule sol87 1987 only - Dec 12 11:53:25s 0:06:35 -

Rule sol87 1987 only - Dec 13 11:53:55s 0:06:05 -

Rule sol87 1987 only - Dec 14 11:54:25s 0:05:35 -

Rule sol87 1987 only - Dec 15 11:54:50s 0:05:10 -

Rule sol87 1987 only - Dec 16 11:55:20s 0:04:40 -

Rule sol87 1987 only - Dec 17 11:55:50s 0:04:10 -

Rule sol87 1987 only - Dec 18 11:56:20s 0:03:40 -

Rule sol87 1987 only - Dec 19 11:56:50s 0:03:10 -

Rule sol87 1987 only - Dec 20 11:57:20s 0:02:40 -

Rule sol87 1987 only - Dec 21 11:57:50s 0:02:10 -

Rule sol87 1987 only - Dec 22 11:58:20s 0:01:40 -

Rule sol87 1987 only - Dec 23 11:58:50s 0:01:10 -

Rule sol87 1987 only - Dec 24 11:59:20s 0:00:40 -

Rule sol87 1987 only - Dec 25 11:59:50s 0:00:10 -

Rule sol87 1987 only - Dec 26 12:00:20s -0:00:20 -

Rule sol87 1987 only - Dec 27 12:00:45s -0:00:45 -

Rule sol87 1987 only - Dec 28 12:01:15s -0:01:15 -

Rule sol87 1987 only - Dec 29 12:01:45s -0:01:45 -

Rule sol87 1987 only - Dec 30 12:02:15s -0:02:15 -

Rule sol87 1987 only - Dec 31 12:02:45s -0:02:45 -

# Riyadh is at about 46 degrees 46 minutes East: 3 hrs, 7 mins, 4 secs

# Before and after 1987, we'll operate on local mean solar time.

# Zone NAME GMTOFF RULES/SAVE FORMAT [UNTIL]

Zone Asia/Riyadh87 3:07:04 - zzz 1987

3:07:04 sol87 zzz 1988

3:07:04 - zzz

# For backward compatibility...

Link Asia/Riyadh87 Mideast/Riyadh87