

SetDST

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Chapter 1

SetDST

1.1 SetDST User Guide

SetDST 1.8 (10.3.2000)

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=====
User Guide
=====

LEGALESE Important things first!

Introduction What's it for?

Requirements What you need.

Installation Where do I put things?

Usage How do I do it?

Tools Special bonus tracks included!

Notes Mind the gap!

Examples For those who never read the docs.

Author Who wrote this?

Feedback It's your turn now.

Acknowledgements Thank you, thank you so much.

History As time goes by...

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DISCLAIMER

1.3 COPYRIGHT

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1.5 Introduction

Introduction

In most countries of the world local time changes two times a year: from local standard time, also known as Wintertime, to local daylight saving time

(DST), also known as Summertime, and back.

SetDST helps you to keep up with the DST switches and will perform any necessary action automatically.

It may be run in the background if you wish, so if you never switch your computer off it will make sure that you always have the right system time--hopefully, though.

In addition to that SetDST creates and manages up to 4 environment variables, TZONE, TZ, TIMEZONE and YAM_TZ, which enables other applications to make use of the time zone names and GMT offsets stored within.

It is able to patch the default locale by user request.

1.6 Requirements

Requirements

° AmigaOS 2.04 or higher

1.7 Installation

Installation

There is no special installation process required to run SetDST -- unpack the archive to a place you like and run the program.

However, if you want a more convenient method of installing the program there is an Installer script provided with this release, called Install-SetDST.

If you double-click its icon only those files will be installed you really need and you may choose other options like installing SetDST so that it will be run automatically during startup.

If you run SetDST for the first time your system time should be set to your current local time.

In addition to that your locale settings, maintained by the Locale Preferences editor, should be set to your Country and Time Zone so that SetDST is able to select the correct DST scheme for your area.

Both settings are important if you run SetDST with the builtin default settings -- the experienced user may override the default settings.

If the environment variable **TZ** is already present, its DST part should reflect the time in your zone, either standard time or DST.

1.8 Usage

Usage

SetDST can either be run from the CLI or from the Workbench.

[Running from the CLI](#)

[Running from the Workbench](#)

[Aborting the program](#)

[The DST.dat format](#)

[The Timezone data format](#)

[Environment variables](#)

1.9 Running from the CLI

Running from the CLI

```
Format: SetDST [ TZDATA <tzdata> ] [ ZONE <zone> ]
[ SETTZ ] [ TZFIX MODE1|MODE2 ] [ SASFIX ] [ SETTIMEZONE ]
[ SETYAMTZ ] [ ADDNAME ] [ SETLOCALE ] [ REMOVEENV ]
[ BACKGROUND ] [ NOSAVE ] [ NOUSE ] [ BATTLOCKONLY ]
[ NOASK ] [ NOREQ ] [ QUIET ] [ NOLOG ]
[ REFRESH <seconds> ] [ NOWATCHENV ] [ CX_PRIORITY <priority> ]
```

Template: TZDATA/K,ZONE/K,

SETTZ/S,TZFIX/K,SASFIX/S,SETTIMEZONE/S,

SETYAMTZ/S,ADDNAME/S,SETLOCALE/S,REMOVEENV/S,

BACKGROUND/S,NOSAVE/S,NOUSE/S,BATTLOCKONLY/S,

NOASK/S,NOREQ/S,QUIET/S,NOLOG/S,

REFRESH/N/K,NOWATCHENV/S,CX_PRIORITY/N/K

1.10 Running from the CLI

TZDATA

When no TZDATA argument is given, the program will read and parse the file [DST.dat](#) which contains time zone specific information for various countries and other geographical regions.

By default, the program uses the current locale settings (Country and Time Zone) to retrieve the correct timezone record from DST.dat.

SetDST will search for DST.dat in the `s` drawer of the current directory or in `S`:

With TZDATA you can specify a different path for the program to look for DST.dat. The value has to be a complete path including the filename, 'DH0:data/DST.dat' for example.

In addition to that TZDATA may contain a complete timezone record in the [Timezone data format](#) which will be used instead of records from DST.dat.

1.11 Running from the CLI

ZONE

By specifying ZONE you can force SetDST to search for and use a specific record in **DST.dat** .

ZONE may contain a record identifier or a standard timezone name and a GMT offset to identify a record.

If SetDST is unable to retrieve a timezone record from DST.dat or a wrong timezone string is given with TZDATA the US rules are used to switch to and from DST, which is the first Sunday in April at 02:00 and the last Sunday in October at 02:00 with DST being one hour ahead of standard time.

In this case the names of the time zones will default to 'GMT' and the GMT offset is set to the current Locale Time Zone offset.

1.12 Running from the CLI

SETTZ

By default SetDST stores the current timezone names and GMT offsets in the environment variable **TZONE** only.

With SETTZ you tell the program to create the environment variable **TZ** as well, which has the format as documented by the SAS/C compiler environment.

1.13 Running from the CLI

TZFIX

Unfortunately there are at least three different versions of how the environment variable **TZ** should look like.

If an application produces wrong results when evaluating a TZ created by SetDST using SETTZ, you can use TZFIX to create the TZ variable in two additional formats.

With TZFIX you have to specify one of currently two values, **MODE1** or **MODE2** . TZFIX is only used in combination with SETTZ.

1.14 Running from the CLI

SASFIX

is only used in combination with SETTZ.

If set it will have the same effect as TZFIX=MODE1.

Please use TZFIX=MODE1 as this argument may disappear in future versions.

1.15 Running from the CLI

SETTIMEZONE

With SETTIMEZONE you tell SetDST to create the environment variable **TIMEZONE** which will hold a RFC 822 compliant timezone string.

1.16 Running from the CLI

SETYAMTZ

With SETYAMTZ you tell the program to create the environment variable **YAM_TZ**, which has the same format as TIMEZONE.

If this variable is present when you use the EMail client YAM to write mail, its contents will be added to the 'Date' line of the mail body.

1.17 Running from the CLI

ADDNAME

is only used in combination with SETTIMEZONE and SETYAMTZ.

If specified the name of the timezone will be added to the timezone strings of the **TIMEZONE** or **YAM_TZ** environment variables.

1.18 Running from the CLI

SETLOCALE

As the current AmigaOS doesn't offer a documented standard way of setting DST, the best way for an application to evaluate the current DST mode for creating time specific information would be to look out for a special environment variable like TZONE or TZ.

However, many applications do not behave this way and simply use the current Time Zone value set with the Locale Preferences program which will obviously produce wrong results when DST is in effect.

To support this kind of programs you can tell SetDST to set the GMT offset of the default locale to the value calculated by SetDST with the SETLOCALE argument.

Please note that SETLOCALE will only work if BACKGROUND is specified too. If SetDST is stopped from running the original GMT offset of the default locale will be restored.

When specifying SETLOCALE you should not set NOWATCHENV. This will allow SetDST to react to any changes being made to the locale preferences--

SetDST might behave incorrectly otherwise!

NOTE: SETLOCALE will change the GMT offset system wide for any application which uses the default locale. Having other programs running which do DST calculations by themselves will very likely cause them to behave incorrectly so this argument should be used with care!

1.19 Running from the CLI

REMOVEENV

will cause SetDST to behave different:

It will only delete environment variables maintained by SetDST.

This option may be useful if you decide not to use SetDST anymore or you do not want to remove environment variables by hand for a different reason.

By default SetDST will only remove TZONE.

If you specify SETTZ, SETTIMEZONE and/or SETYAMTZ together with REMOVEENV, the corresponding variables will be deleted as well.

The variables will be deleted from ENVARC: and ENV: unless you specify NOSAVE to remove them from ENV: only.

1.20 Running from the CLI

BACKGROUND

If you run SetDST without the BACKGROUND argument it will check once what time it is, do any necessary system time changes, write all required environment variables and then exit.

If your system is powered on 24 hours/7 days a week you can let SetDST watch for changes in the background by specifying BACKGROUND.

This way SetDST will run as a Commodity and the behaviour of it can be managed with the 'Commodities Exchange' program.

Please refer to the [Notes](#) section for possible side effects when specifying BACKGROUND.

1.21 Running from the CLI

NOSAVE

With NOSAVE you prevent SetDST from writing any changes to the battery-backed clock and environment variables will only be written to ENV: and not to ENVARC:

In combination with REMOVEENV environment variables will only be deleted from ENV:

1.22 Running from the CLI

NOUSE

When NOUSE is specified SetDST will NOT change system time if necessary and will NOT write any environment variables at all.

It will only tell you what it wants to do via CLI or logfile messages.

1.23 Running from the CLI

BATTCLOCKONLY

Under some conditions it can be dangerous to set back system time (see [Notes](#)).

With BATTCLOCKONLY you can force SetDST to only change the battery-backed clock and leave the system time untouched.

1.24 Running from the CLI

NOASK

By default SetDST will bring up a requester that has to be satisfied before it changes system time.

Whith NOASK these changes will be performed without prior confirmation.

1.25 Running from the CLI

NOREQ

With NOREQ you tell SetDST not to bring up any requester, it overrides NOASK.

1.26 Running from the CLI

QUIET

By default SetDST writes informative messages to a console window.

If you do not want to see these messages, you should specify QUIET.

1.27 Running from the CLI

NOLOG

Those informative messages will also be written to t:SetDST.log unless you tell SetDST not to do so by specifying NOLOG.

1.28 Running from the CLI

REFRESH

is especially useful if you have to set back system time while SetDST is running which is always a thing that might cause problems for a numerous kind of other programs as well (see [Notes](#)).

If system time is set back beyond the previous date for a DST switch SetDST wouldn't be able to catch the next switch based on the new time.

With REFRESH you can specify the duration of the interval in seconds SetDST looks for any changes done to system time from outside SetDST.

So with the default value of 60, SetDST looks every 60 seconds for changes and if there were any that would affect the current DST settings, it will perform all necessary action.

60 seconds should be a good compromise between accuracy and system load--choosing shorter intervals might slow down other running programs.

However, if you want SetDST to use almost no processor time at all while in the background you can disable this feature with a REFRESH value of 0.

NOTE: you can always force SetDST to reevaluate the current settings by either quitting and restarting it or by deactivating and reactivating it through Commodities Exchange.

1.29 Running from the CLI

NOWATCHENV

SetDST mainly uses [TZONE](#) to store the current DST setting.

If you change this environment variable from outside SetDST while SetDST is running, the program will notice that by default and perform any necessary changes immediately.

SetDST will also monitor changes being made to the Locale settings and will act in the same way.

With NOWATCHENV this feature can be disabled.

1.30 Running from the CLI

CX_PRIORITY

lets you set the priority of SetDST running in the Commodities

Exchange environment. It accepts values from -128 to 127, the higher the number, the higher the priority of the SetDST commodity.

1.31 Running from the Workbench

Running from the Workbench

All of the **CLI** arguments also exist as Workbench ToolTypes with the same meaning.

If you want to run SetDST during startup, the recommended way is to copy SetDST and SetDST.info to the SYS:WBStartup drawer.

If you do so, you should add the tooltype DONOTWAIT so that the startup sequence does not wait until SetDST has finished.

You should also copy DST.dat to the S: drawer.

The **Installer script** offers an option to copy all files to the right place for running SetDST during startup if you select 'Average' or 'Expert' mode.

1.32 Aborting the program

Aborting the program

If you run SetDST without the **BACKGROUND** argument there is no need to abort the program--it will run once making all necessary changes and then exit.

If you run SetDST with the BACKGROUND argument you have several ways aborting the running program:

- Open the Commodities Exchange window and select the 'Remove' gadget.
- SetDST can only run once on your system. If you try to start it again it will refuse to open and will also force the already running SetDST to exit.
- Send a break signal (Ctrl-C) to the SetDST task and the program will exit.
- If you run SetDST from the CLI, press the 'Ctrl-C' keys in the CLI window.

1.33 DST.dat format

DST.dat format

DST.dat contains timezone records for various countries and other geographical regions.

Each line represents a timezone record which mainly consists of a string in the **Timezone data format**.

In addition to that it may be preceded by a record identifier which will allow to classify and/or closer identify a record.

Record identifiers and timezone strings are separated by a ';' character.

They are used, for example, when the current locale settings are to be used to retrieve a record or if you specify the ZONE argument.

Comments in DST.dat are identified by a '#' character, blank lines and white spaces are ignored.

The records in DST.dat are parsed from top to bottom--the first record that matches will be used.

To reduce parsing time or avoid problems with duplicate record identifiers you can copy your timezone record to the beginning of the file.

Example:

```
USA;EST5EDT,M4.1.0/2,M10.5.0/2 # Eastern Time Zone
```

In this record 'USA' is the record identifier, 'EST5EDT,M4.1.0/2,M10.5.0/2' is the timezone string and 'Eastern Time Zone' is a comment.

It will be selected by SetDST if your Locale settings are set to 'United_states' and '5 Hours from GMT' and you do not specify a different timezone string via TZDATA and no ZONE argument is given.

This record will also be chosen if you specify 'USA' with the ZONE argument (because the record for the Eastern Time Zone is the first record in DST.dat which matches 'USA') or if you specify 'USA5' or 'EST5' (if you want to make sure that only the record with a matching identifier/zone name and GMT offset will be selected).

Alternatively, to use this time zone data you can supply 'EST5EDT,M4.1.0/2,M10.5.0/2' with the TZDATA argument.

If you would specify 'EST' with the ZONE argument the timezone record for Eastern Australia would be selected because it is the first record which matches 'EST'.

This is how the complete DST.dat DST.dat currently looks like.

1.34 Timezone data format

Timezone data format

The timezone string specifies the names of timezones and the GMT offsets of these zones SetDST uses for creating **environment variables** as well as the rules of these zones that will tell SetDST when to switch to and from DST.

The string is based upon the POSIX.1 TZ format and has the following form:

```
std offset dst[offset],date[/time],date[/time]
```

The spaces are for clarity only and should be omitted!

where:

std and dst

are 3 or more characters specifying the local standard and daylight saving time (DST) zone names.

offset

is of the form [-]hh:[mm[:ss]] and specifies the offset west of GMT.

If there is no offset following dst daylight saving time is one hour ahead of standard time.

date[/time],date[/time]

specifies the beginning and end of DST.

If this is absent, the US rules for DST are used.

date

is of the form Mm.n.d for the dth day of week n of month m of the year ($1 \leq m \leq 12$, $1 \leq n \leq 5$, 0 (Sunday) $\leq d \leq 6$ (Saturday)).

Week 1 is the first week in which day d appears and '5' stands for the last week in which day d appears.

time

takes the form hh:[mm[:ss]] and defaults to 02:00 for the beginning and end of DST.

Example:

CET-1CEST-2,M3.5.0/2,M10.5.0/3

means standard time is called CET and is one hour east of GMT, DST is called CEST and, if it is in effect, is 2 hours east of GMT.

DST starts on the last Sunday in March at 02:00 and ends on the last Sunday in October at 03:00.

PST8PDT,M4.1.0/2,M10.5.0/2

means standard time is called PST and is 8 hours west of GMT, DST is called PDT and, if it is in effect, is 7 hours west of GMT.

DST starts on the first Sunday in April at 02:00 and ends on the last Sunday in October at 02:00.

1.35 Environment variables

Environment variables

SetDST uses environment variables to store and retrieve the current DST settings and to allow other applications to make use of it.

They will be stored by default in ENV: and in ENVARC: unless you specify the NOUSE and/or NOSAVE arguments.

TZONE

The main variable managed by SetDST is TZONE.

Its format is very similar to the **TZDATA** format:

std offset[dst [offset]]

The spaces are for clarity only and should be omitted!

where:

std and dst

are 3 or more characters specifying the local standard and daylight saving time (DST) zone names.

offset

is of the form [-]hh:[mm[:ss]] and specifies the offset west of GMT.

If there is no offset following dst daylight saving time is one hour ahead of standard time.

If the dst offset part is absent, SetDST assumes that system time represents standard time, if it is present, system time means daylight saving time.

Offset always specifies the absolute offset of the zone from GMT so if standard time is in use, you should use the std offset and if DST is in effect, the dst offset should be used.

Note that this is different to the timezone environment variable TZ!

Examples:

EST5

standard time is in effect, your timezone is called EST and you are 5 hours west of GMT.

CST-9:30CST-10:30

DST is in effect, your timezone is called CST and you are 10 hours, 30 minutes east of GMT.

CET-1CEST

DST is in effect, your timezone is called CEST and you are 2 hours east of GMT.

TZ

If you specify the SETTZ argument, SetDST will write the TZ environment variable as well.

By default it will be in the format used by the SAS/C compiler environment:

aaabbb[ccc]

where:

aaa

is a three-letter abbreviation for the local standard time zone.

bbb

is of the form -23 to 24 and specifies the offset west of GMT for local standard time in hours.

ccc

is a three-letter abbreviation for the local DST zone.

It is present if DST is in effect and local time is one hour ahead of standard time.

If TZFIX=MODE1 is specified along with SETTZ, TZ will be in the following format:

aaabbb

aaa

is a three-letter abbreviation for the local standard or daylight saving time zone.

bbb

is of the form -23 to 24 and specifies the offset west of GMT for local standard time or daylight saving time in hours.

Please note that when specifying MODE1 it is not possible for applications to determine by TZ whether standard or daylight saving time is in effect!

If TZFIX=MODE2 is specified along with SETTZ, TZ will be in the following format:

aaabbb[ccc]

aaa

is a three-letter abbreviation for the local standard time zone.

bbb

is of the form -23 to 24 and specifies the offset west of GMT for local standard time or daylight saving time in hours.

ccc

is a three-letter abbreviation for the local DST zone.

It is present if DST is in effect.

Examples:

CET-1

means standard time is in effect, your timezone is called CET and you are 1 hour east of GMT.

EST5EDT

means DST is in effect, your timezone is called EDT, and you are 4 hours west of GMT.

EDT4 (created in combination with TZFIX=MODE1)

means your timezone is called EDT and you are 4 hours west of GMT.

It is unknown whether DST is in effect or not.

EST4EDT (created in combination with TZFIX=MODE2)

means DST is in effect, your timezone is called EDT and you are 4 hours west of GMT.

TIMEZONE, YAM_TZ

If you specify the SETTIMEZONE argument, SetDST will write the TIMEZONE environment variable as well.

If you specify the SETYAMTZ argument, SetDST will write the YAM_TZ environment

variable as well.

Both will contain a RFC 822 compliant time string in the following format:

```
[+/-]hhmm
```

If ADDNAME is specified along with these variables, TIMEZONE and YAM_TZ will be in the following format:

```
[+/-]hhmm (aaa)
```

where aaa is a three or more letter abbreviation for the local standard or daylight saving time zone.

Examples:

A TZONE containing CST-9:30CST-10:30 will produce the variable TIMEZONE or YAM_TZ containing '+1030', a TZONE containing EST5 will produce '-0500'.

In combination with ADDNAME a TZONE containing PST8PDT7 will produce '-0700 (PDT)'.

1.36 Tools

IsDST

IsDST is a small CLI utility which allows to check whether DST is currently in effect on the system.

It will parse TZONE and, as a fallback, TZ and will return WARN (5) when DST rules and OK (0) when standard time is in effect or if neither TZONE nor TZ are present.

It will return FAIL (20) in case of a serious internal allocation error.

A possible way to use IsDST would be from an AmigaDOS script:

```
IsDST
```

```
IF WARN
```

```
ECHO "DST is in effect"
```

```
ELSE
```

```
ECHO "Standard time is in effect"
```

```
ENDIF
```

```
CheckDST
```

CheckDST is a small shell script which shows an easy way to check whether DST is currently in effect on the system.

1.37 Notes

Notes

SetDST's main job is to change the Amiga system time and the battery-backed clock when it thinks the time for a DST switch has come.

Under some conditions changing the time backwards or forwards while other programs are running might cause some serious problems:

All programs that compute time measurement or depend on a continuous increasing system time may come into dire straits -- they can produce wrong results, may behave in an unpredictable way or even crash the computer, especially when the time is set backwards.

If you have such kind of programs running on your system and would still like to use SetDST there are several possibilities to avoid problems:

- ° You can force SetDST to only set the battery-backed clock and not the system time by specifying the BATTLOCKONLY argument.
- ° If you do not want SetDST to have the ability to change system time while the system is running, do NOT specify the BACKGROUND argument. Instead you should run SetDST once during startup as early as possible before you run any program that might do timing operations.
- ° You should NOT specify the NOASK argument and you should NOT specify the NOREQ argument.

This way every time SetDST wants to change the time, it asks you for confirmation before - if you have programs running at that moment that perform timing routines, select 'No' to prevent SetDST from changing the time.

1.38 Examples

Examples

1. SetDST

SetDST will retrieve the timezone record from DST.dat based on the current locale settings.

It will check once if local time is DST or standard time, see how it matches with the environment variables, adjust system time and variables if necessary and then exit.

If it wants to change system time and environment variables, it asks the user for confirmation.

It will create the environment variable TZONE.

2. SetDST ZONE="EST5"

SetDST will retrieve the timezone record from DST.dat matching the time zone name "EST" and a GMT offset of '5' hours west of GMT.

It will check once if local time is DST or standard time, see how it matches with the environment variables, adjust system time and variables if necessary and desired by the user and then exit.

It will create the environment variable TZONE.

```
3. SetDST TZDATA="CET-1CEST-2,M3.5.0/2,M10.5.0/3" BACKGROUND NOASK SETTZ  
SETTIMEZONE SETYAMTZ REFRESH=0
```

SetDST will use the timezone string "CET-1CEST-2,M3.5.0/2,M10.5.0/3".

It will run in the background and watch out for the next DST switch.

If it wants to change system time and environment variables, it does not ask the user for confirmation.

It will create the environment variables TZONE, TZ, TIMEZONE and YAM_TZ and will never check and react automatically if system time has been set back.

```
4. SetDST NOUSE
```

SetDST will run once and will neither change system time nor any environment variables.

```
5. SetDST REMOVEENV SETTZ
```

SetDST will run once and will delete the TZONE and TZ environment variables from both ENVARC: and ENV:

1.39 Author

Author

SetDST is written by Stefan Falke.

If you have any comments about the program, should find any bugs or would like to see special features to be added in the next release please feel free to send me an email to the following address:

Stefan Falke <sfalke@gmx.de>

1.40 Feedback

Rating SetDST

Please rate SetDST.

To do so, send an EMail to

aminet-server@wuarchive.wustl.edu

with

RATE util/time/SetDST.lha <num>

in the body of the mail, where <num> is your rating from 0..10 with 10

being the best.

You can rate several programs in one mail.

DST.dat

If you have to add or change timezone records in DST.dat to get the correct values for your country or region please let me know of these changes.

I will accomodate DST.dat in future releases.

Language support

If you would like to have language support for a language which isn't supplied with this release, please let me know if you would like to make a translation yourself and I will contact you ASAP.

Please let me know *before* you start translating--there may be another person already doing the same job.

1.41 Acknowledgements

Acknowledgements

The language catalogs were translated by:

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CheckDST was contributed by Nils Goers <nils@goers.line.org>

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1.42 History

History

1.8 (10.3.2000)

- ° The logfile now displays years with four digits.
- ° OS35 icons have been added.
- ° Spanish language catalog added to distribution archive.

1.7 (10.09.99)

- ° Italian language catalog added to distribution archive.
- ° Various internal modifications (well, a few at least :).

1.6 (30.07.99)

- ° The argument TZFIX has been added to allow further variations of the TZ environment variable to be created.

It can replace the SASFIX argument.

- CheckDST script added to distribution archive.
- In V1.5, DST.dat wasn't found if it was located in 'PROGDIR:s' - this has been fixed.
- Danish language catalog added to distribution archive.

1.5 (18.5.99)

- The argument ADDNAME has been added which will add the name of the current time zone to the timezone string of the environment variables TIMEZONE and YAM_TZ.
- SetDST will not react to changes anymore being made to TZONE or the Locale settings when it is inactive.
- Norwegian language catalog added to distribution archive.
- Installer script has been modified.
- IsDST binary added to distribution archive.

1.4

- Internal release.

1.3 (26.4.99)

- It is now possible to force SetDST to only change the battery-backed clock by specifying the new argument/tooltype BATTCLOCKONLY.
- It is now possible to set the default locale to the current offset from GMT determined by SetDST by specifying the new argument/tooltype SETLOCALE.
- It is now possible to remove all or single environment variables maintained by SetDST by specifying the new argument/tooltype REMOVEENV.
- The environment variable TZ can now be written in a different form to support applications which work around the broken SAS/C time functions by specifying the new argument/tooltype SASFIX.
- Installer script added to distribution archive.
- French language catalog added to distribution archive.
- Added more messages when changing system time/battery-backed clock and when setting/deleting environment variables.
- SetDST now requires language catalogs V2.x.

1.1, 1.2

- Internal releases.

1.0 (24.3.99)

- First public release.
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