

sltables,
the L^AT_EX modification of R. Nilson*
S-Tables macros

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Note: Original documentation was reformatted and changed in accordance with the current situation.

1 Documentation

Types of Commands	
Start/End	These are the commands for starting and ending the table
Columns Separators	These are used to separate the columns in the tables
Row Separators	These are used to separate the rows
Configuration	These are used to set up the functioning of the tables such as the width of a thick rule, whether the internal rules are thin or thick, etc.
Specials	These include any commands that do not fit into the above categories

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Start/End		
Command	Arguments	Description
\begin{stable} \begin{stableto}	none width	Start a table Start a table with the specified width. The table will be stretched until it is ‘width’ wide
\begin{stablesp}	stretch amount	Start a table and stretch it ‘stretch amount’ wider than it would normally be
\end{stable}, \end{stablesp}, \end{stableto}	none	End the table

Column Separators		
Command	Arguments	Description
	none	End a column and place a vertical rule of the default width between the columns (do not use this at the end of a line)
\	none	Same as above but the vertical rule will be suppressed
\vt	none	Same as above but the vertical rule will be thin
\vtt	none	Same as above but the vertical rule will be thick
\vttt	thickness	Same as above but the vertical rule will be ‘thickness’ wide

Row Separators		
Command	Arguments	Description
\el	none	End a line and don't put a rule under it. (Do not use this after the last line of the table, use \endtable)
\elt	none	Same as above except put a thin rule under the line
\eltt	none	Same as above except put a thick rule under the line
\elttt	thickness	Same as above except put a rule of width 'thickness' under the line
\elspec	none	This command is used to set up rules under rows that DO NOT span the entire row. It in effect indicates that the next row will specify the rule to be used under the current row. This is especially useful when using with the row spanning commands. This introduces a subclass, the horizontal rule commands
Horizontal Rule Command Subset		
\trule	none	Places a thin horizontal rule under a column. This command is only for use in conjunction with the \elspec command (To leave a column blank, i.e. no rule, just leave it blank)
\ttrule	none	Same as above but the rule will be thick
\tttrule	thickness	Same as above but the rule will be 'thickness' thick

You may be wondering what the difference between the \elt and the \trule command is. The \elt will end the line and draw a thin rule under it. The \trule works in conjunction with the \elspec to generate a special rule. The special rule line is entered the same way a regular row will be entered. For example, a normal row would look like:

```
This|is|a|Test\elt
```

This will produce a row with a thin rule under it. To produce the same effect without a rule under the column 'is' the following would be used:

```
This|is|a|Test\elspec
\trule||\trule|\trule\el
```

Notice that the vertical bars are used. The macro is starting a new row and the vertical bars need to be included if you want them to continue through the line. (There is no need to only use the |, any other column separator is also valid).

Configuration		
Variable	Value	Description
Dimensions		
\stablesthinline	dimension	This variable contains the width of a thin rule in the table. The default value is 0.4pt and it may be changed with the command: <code>\stablesthinline=<dimen></code> where <dimen> is the new width.
\stablesthickline	dimension	This variable contains the width of a thick rule in the table. The default value is 1pt and it may be changed as above.
Counters		
\stablestyle	0	Center the table using the current \hsize. This is the default setting and it may be changed by the following command: <code>\stablestyle=n</code> where n is the new value (0, 1, 2, or 3)
	1	Left justify the table
	2	Right justify the table
	3	No justification
If Statements		
\ifstableinternalthin	true	Make the internal rules of the table thin. This sets the vertical rule generated by the . To set the value of this variable the following command must be used: <code>\stableinternalthintrue</code> Please note the word ‘if’ is removed and the word ‘true’ has been appended to the end. The value after this command will be true. To set it to false append the word ‘false’ instead of ‘true’.
	false	Use thick internal rules (where the is used)
\ifstableborderthin	true	Use thin rules for the border of the table
	false	Use thick rules for the border of the table. This is the default.

All settings in the configuration section should be used **OUTSIDE** the table. The results of changing a setting inside the table will be unpredictable,

and undesirable.

There are two more settings that need to be discussed. First is the element buffering. There are two definitions that are used for this: `\stablesleft` and `\stablesright`. The default settings are as follows:

```
\def\stablesleft{\quad\hfil}
\def\stablesright{\hfil\quad}
```

To change these, simply redefine them.

The other setting is the strut. If you are interested in resetting this, the T_EXbook should provide sufficient information (The strut is used to hold up the box).

2 Specials

This section will be broken into three parts: the spanning commands, the paragraph commands, and miscellaneous information.

First of all we have two (actually three, but I'll discuss the third later) spanning commands. They are `\multicolumn` and `\multirow`. To use `\multicolumn` to span several columns the command will be:

`\multicolumn` and your data here.¹

The *n* specifies the number of columns to span across. For example, if a table has 3 columns and you want a title across the top, *n* would be 3. Omit each column separator that is spanned across (in this case none would be used). When this command is used the buffering is suspended on the spanning column, so it is necessary to put `\hfil`'s around the data in the spanning column to center it.

`\multirow` works slightly differently. The number of rows to span is specified in the same way as the number of columns in the `\multicolumn` macro, but the text to be spanned must be placed in curly braces directly after:

`\multirow{<horizontal material>}`

The `<horizontal material>` will be vertically centered in the number of spanned rows. The horizontal rules are not automatically omitted under the columns of the rows being spanned. The `\elspec` command must be used to omit these rules. There will be an example at the end of the documentation of this.

The paragraph commands are `\stpar` and `\stparrow`. The format for `\stpar` is:

`\stpar{<dimen>}{<vertical material>}`

The `<dimen>` is the width of the paragraph (the `\hsize`) and the `<vertical material>` is the paragraph.

`\stparrow` will do the same thing as `\stpar` but it will also perform the function of `\multirow`. It is a composite command and the only way to span a paragraph across multiple rows. The format is:

¹Note: `\multicolumn` cannot start a new paragraph!

```
\stparrown{<dimen>}{<vertical material>}
```

In this command the *n* is the number of rows to be spanned and the other material is the same as in the `\stpar` macro. Please note that the rules for spanning multiple rows apply to this macro also (the use of the `\elspec` command).

To use both multiple rows and multiple columns, specify the `\multicolumn` command first, then the `\multirow` or `\stparrow`.

The last point I would like to make concerns the use of varying width vertical rules. If a thin vertical rule runs into a thick vertical rule there will be an offset. The default for this offset is to the left. There are two ways to change the setting. The first is by using an ‘r’ after any of the `\vt` commands. For example `\vttr` will produce a thick vertical rule right justified on any wider rules. The other method is by using the `\ifstableright` setting. A true setting will line up all vertical rules generated by the — on the right. A false setting will make the vertical rules generated by the — left justified (the default).

In all of the specials using a *n* parameter, if the number to be used is greater than 9, it must be placed in curly braces ({}).

3 Examples

This section will give some example tables and the code to generate them organized from simple to complex.

3.1 Example 1

```
\begin{stable}
Ck\#|vt Date|vt Memo|vt Debit|vt Credit|vt Balance\eltt
245|8--2|Rent|\$ \hfill 250.00||\$ \hfill 436.29\el
246|8--2|Danson Electric|\$ \hfill 49.28||\$ \hfill 387.01\el
247|8--5|Jeff's Grocery|\$ \hfill 35.88||\$ \hfill 351.13\el
248||Void|||\el
249|8--10|Danson Times|\$ \hfill 19.00||\$ \hfill 332.13\el
250|8--14|Pizza Palace|\$ \hfill 9.95||\$ \hfill 322.18\el
251|8--15|Jones Hardware|\$ \hfill 45.20||\$ \hfill 276.98\el
252|8--15|Deposit||\$ \hfill 255.81|\$ \hfill 532.79\el
253|8--21|Account Fee|\$ \hfill .85||\$ \hfill 531.94\el
254|8--29|Telephone Co.|\$ \hfill 21.19||\$ \hfill 510.75
\end{stable}
```

Ck#	Date	Memo	Debit	Credit	Balance
245	8-2	Rent	\$ 250.00		\$ 436.29
246	8-2	Danson Electric	\$ 49.28		\$ 387.01
247	8-5	Jeff's Grocery	\$ 35.88		\$ 351.13
248		Void			
249	8-10	Danson Times	\$ 19.00		\$ 332.13
250	8-14	Pizza Palace	\$ 9.95		\$ 322.18
251	8-15	Jones Hardware	\$ 45.20		\$ 276.98
252	8-15	Deposit		\$ 255.81	\$ 532.79
253	8-21	Account Fee	\$.85		\$ 531.94
254	8-29	Telephone Co.	\$ 21.19		\$ 510.75

3.2 Example 2

```
\begin{stableto}{5truein}
\multicolumn{6}{}{Account Activity for August}\hfill\eltt
Ck\#|vt Date|vt Memo|vtt Debit|vt Credit|vtt Balance\eltt
245|8--2|Rent\vtt\$ \hfill 250.00|\vtt\$ \hfill 436.29\el
246|8--2|Danson Electric\vtt\$ \hfill 49.28|\vtt\$ \hfill 387.01\el
247|8--5|Jeff's Grocery\vtt\$ \hfill 35.88|\vtt\$ \hfill 351.13\el
248||Void\vtt|\vtt\el
249|8--10|Danson Times\vtt\$ \hfill 19.00|\vtt\$ \hfill 332.13\el
```

```

250|8--14|Pizza Palace\vtt\$ \hfill 9.95|\vtt\$ \hfill 322.18\el
251|8--15|Jones Hardware\vtt\$ \hfill 45.20|\vtt\$ \hfill 276.98\el
252|8--15|Deposit\vtt|\$ \hfill 255.81\vtt\$ \hfill 532.79\el
253|8--21|Account Fee\vtt\$ \hfill .85|\vtt\$ \hfill 531.94\el
254|8--29|Telephone Co.\vtt\$ \hfill 21.19|\vtt\$ \hfill 510.75
\end{stableto}

```

Account Activity for August					
Ck#	Date	Memo	Debit	Credit	Balance
245	8-2	Rent	\$ 250.00		\$ 436.29
246	8-2	Danson Electric	\$ 49.28		\$ 387.01
247	8-5	Jeff's Grocery	\$ 35.88		\$ 351.13
248		Void			
249	8-10	Danson Times	\$ 19.00		\$ 332.13
250	8-14	Pizza Palace	\$ 9.95		\$ 322.18
251	8-15	Jones Hardware	\$ 45.20		\$ 276.98
252	8-15	Deposit		\$ 255.81	\$ 532.79
253	8-21	Account Fee	\$.85		\$ 531.94
254	8-29	Telephone Co.	\$ 21.19		\$ 510.75

3.3 Example 3

```

\begin{stable}
\multirow2{\#}\vt\multirow2{Date}\vt\multirow2{Memo}\vt
Debit/Credit\elspec
|||\trule\el
|||Balance\eltt
\multirow2{245}|\multirow2{8--2}|\multirow2{Rent}|
\$ \hfill 250.00\elspec
|||\trule\el
|||\$ \hfill 436.29\elttt{.7pt}
\multirow2{246}|\multirow2{8--2}|\multirow2{Danson Electric}|
\$ \hfill 49.28\elspec
|||\trule\el
|||\$ \hfill 387.01\elttt{.7pt}
\multirow2{247}|\multirow2{8--5}|\multirow2{Jeff's Grocery}|
\$ \hfill 35.88\elspec
|||\trule\el
|||\$ \hfill 351.13\elttt{.7pt}
\multirow2{248}||\multirow2{Void}|\elspec
|||\el
|||\elttt{.7pt}
\multirow2{249}|\multirow2{8--10}|\multirow2{Danson Times}|\$

```

```

\hfill 19.00\elspec
|||\trule\el
|||\$ \hfill 332.13
\end{stable}

```

#	Date	Memo	Debit/Credit
			Balance
245	8-2	Rent	\$ 250.00
			\$ 436.29
246	8-2	Danson Electric	\$ 49.28
			\$ 387.01
247	8-5	Jeff's Grocery	\$ 35.88
			\$ 351.13
248		Void	
249	8-10	Danson Times	\$ 19.00
			\$ 332.13

3.4 Example 4

```

\begin{stable}
Account|Ck|#|Debit|Credit|Balance\eltt
\stparrow3{2in}{\noindent\strut The Lyons Investment Memorial
Student Fund following specifications 11.2.3 of the
U.S. Governmental Code CCA1}
|123|\$ \hfill 1,000.00||\$ \hfill 20,000\elspec
|\trule|\trule|\trule|\trule\el
|124|\$ \hfill 200.00||\$ \hfill 19,800\elspec
|\trule|\trule|\trule|\trule\el
|||\$ \hfill 4,000.00|\$ \hfill 23,800\elttt{.7pt}
\multicolumn4{hfil}\stpar{4.25in}{At the end of the physical
year 1990 the balance in the account for Lyons Investment
Memorial Student Fund will be tallied and the results
will be published as per Governmental Code 3.4.2 of the
last payable week in the session. The value presented here
is a projection of the actual that will be available.}\hfil|
\$ \hfill 25,000
\end{stable}

```

Account	Ck#	Debit	Credit	Balance
The Lyons Investment Memorial Student Fund following specifications 11.2.3 of the U.S. Governmental Code CCA1	123	\$1,000.00		\$ 20,000
	124	\$ 200.00		\$ 19,800
			\$4,000.00	\$ 23,800
At the end of the physical year 1990 the balance in the account for Lyons Investment Memorial Student Fund will be tallied and the results will be published as per Governmental Code 3.4.2 of the last payable week in the session. The value presented here is a projection of the actual that will be available.				\$25,000

3.5 Example 5, “table acid test”

```
\begin{stable}
\multirow{3}{A}|\multicolumn{2}{hfill}{B}\hfill\elspec
|\trule|\trule\el
|\multirow{2}{C}|D\elspec
||\trule\el
||E
\end{stable}
```

A	B	
	C	D
		E