rsput

This command is specific to ...
IBM PC XT or AT comptible

keys:	**name**	'<text>'	name of file which contains data to be sent
	text	*'<text>'*	text string to send
	char	*<number>*	integer ASCII code of character to send
options:	**again**		if **name** is omitted and was used in a command to open a file for reading, open the same file again
	binary		if **name**, send the contents of the file without processing record terminators
	cr		terminate each record/item with carriage return
	lf		terminate each record/item with line feed
	wait		wait for transmission to complete

The **rsput** command allows you to transmit data through a communication port established with the **rs232** command. Data can be sent as single characters, as a text string or as data from a file.

Examples

```
rsput text 'go' cr
```

This command sends the characters 'g', 'o' and carriage return to the current port.

```
rsput name 'setup.dat' cr lf
```

This command sends the contents of the file *setup.data* to the current port with carriage return and line feed between records.

```
rsput name 'new.obj' binary
```

This command sends the file *new.obj* as a binary byte stream. The number of bytes sent is exactly the number in the file.

Description

Together with the **rs232** and **rsget** commands, the **rsput** command gives you extensive control of the RS232 communciations ports, COM1: and COM2:. The transfer of data takes place asynchronously under interrupt control, freeing the Semper session to perform other operations while the data is transmitted. Both ports can be controlled independently and at the same time.

rsput

Semper maintains a concept of the currently selected port, and this port is used by **rsput** to send data. You can switch ports using the **rs232** command.

The key **char** specifies a single ASCII character to send. Any character can be sent (providing that the port has a suitable number of data bits selected).

The text key specifies a text string to send. Note that this can be any kind of Semper textstring, such as

```
rsput text 'found item number ',n,' at position ',x,',',y
```

The **name** key specifies the name of a file containing data to be sent. If the **binary** option is given, the contents of the file are sent unmodified, otherwise, the data is sent as a series of records.

The options **cr** and **lf** are used to send carriage return and linefeed characters after any text or character. They are also used to specify how records are terminated when sending a non-binary file. Note that the default for file transmission is **cr** and **nolf**.

The **again** option allows you to re-open a file without having to specify the file name again with the **name** key. If the **name** key was not used before to open a file for reading, the **rsput** command will prompt for the file name.

The option **wait** is used to make Semper wait until all of the data has been transmitted before continuing (the default is to put the data in the transmit buffer for asynchronous transmission). This option is useful if you need to synchronise with some external events, for example, lighting changes or microscope stage movements.

Notes

see also: **rs232, rsget**

rsput

Defaults and Ranges

keys/options	defaults	range
name	*none*; prompts for file name if interactive	valid file name
text	*none*	valid Semper textstring
char	*none*	integer in the range 0 to 255
binary	if **name**, read data from file as separate records	
cr/lf	if **name**, record terminator is carriage return, otherwise, *none*	
wait	put data in transmit buffer for asynchronous transmission	