Applesoft: Internals--String Utilities (2 of 2)

```
STRTXT          DE81
```
Build a temporary descriptor for a string literal of which the first character
is pointed to by TXTPTR plus C and which ends with a quote. FACMO,FACLO points
to the resulting temporary descriptor. Skip leading quotes before calling
STRLIT. On exit, STRNG2 points to the character after the string literal.

```
STRLIT          E3E7
```
Build a temporary descriptor for a string literal of which the first character
is pointed to by Y,A and which ends with a quote.   FACMO,FACLO points to the
resulting temporary descriptor.
Skip leading quotes before calling STRLIT. On exit, STRNG2 points to the
character after the string literal.

```
STRLT2          E3ED
```
Take a string literal of which the first character is pointed to by Y,A and
build a temporary descriptor for it pointed to by FACMO,FACLO. Save in CHARAC
and ENDCHR the characters other than zero that terminate the string. Skip
leading quotes before calling STRLIT2. On exit, STRNG2 points to the
character after the string literal.

```
PUTNEW          E42A
```
Move the descriptor in DSCTMP to a temporary descriptor, put a pointer to the
descriptor in FACMO,FACLO, and flag the result as a string.

```
GETSPA          E452
```
Get A bytes of memory below HIMEM for a string.
GETSPA forces garbage collection to make room in memory when necessary and
exits with an "OUT OF MEMORY ERROR" if garbage collection can't make enough
room.
GETSPA moves FRESPC and FRETOP down enough to store the string. On entry, A
equals the number of characters. GETSPA returns with A unchanged and pointer
to the space in FRESPC, FRETOP, and Y,X.

```
FRESTR          E5FD
```
Make sure that the last FAC result was a string and free up the temporary
string result. Check the descriptor for a temporary status allocated by
PUTNEW. On exit, the address of the string is in INDEX and Y,X. The length of
the string is in A. Uses FRETMP.

```
FREFAC          E600
```
Free up the temporary string pointed to by FACMO,FACLO. Check the descriptor
for a temporary status allocated by PUTNEW. On exit the address of the string

is in INDEX and Y,X. The length of the string is in A. Uses FRETMP.

FRETMP   E604
Free up a temporary string. On entry the pointer to the descriptor is in Y,A.
Checks the descriptor for a temporary status allocated by PUTNEW. If so, the
temporary is freed up by updating TEMPPT. If a temp is freed up, a further
check tests the string's location for the lowest in memory. If so, that area
of memory is freed up by updating FRETOP. On exit the address of the string
is in INDEX and Y,X. The length of the string is in A.

FRETMS   E635
Free the temporary descriptor without freeing up the string. On entry Y,A
point to the descriptor to be freed. On exit Z is set if anything was freed.
Apple Tech Notes

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