These are various tests of generating tables when the text is being generated with line numbers at the left, activated by troff's **.nm** request. The complexity handling tables in this case is that the *tbl* preprocessor uses diversions when creating tables. When designed, *tbl*'s behavior was apparently not analyzed if line numbering was in effect. By default, text output into diversions will have line number prefixes, leading to multiple line number prefixes being appended at each stage of diversion processing. The tables produced in this case were effectively unreadable.

The main change to make numbering work properly with tables was to turn off numbering in diverted text and restoring it when only the diversions were reassembled at the topmost level to produce the printed page. The challenge doing this is to design a scheme that can handle the many levels of diversions in tables. Simple tables have only a single level. Drawing boxes around table entries involves another level of diversion. Finally, text blocks (table entries enclosed with T{ ... T}) involve yet another level of diversion. Assembling all these diversion levels into a single line of a table requires quite subtle logic so that all cases may be treated properly. The result -- simple looking -- hides some laborious processing of text.

The first test case is a simple table, each line of which is a simple entry.

Simple table		
Item	Value	Value
First	10	0.1
Second	5.2	10

Next comes the same table with all items boxed.

Simple table		
Item	Value	Value
First	10	0.1
Second	5.2	10

Now double boxed.

Simple table		
Item	Value	Value
First	10	0.1
Second	5.2	10

A table with a .T& in it to change formating.

Changed format table		
Item	Value	Value
First	10	0.1
Second	5.2	10

This is a text line.

A more complex table. The complexity is due to the text boxes on the third information line. The numeric data is printed in one line, then the block of texts on the left and right are printed in two further lines. Consequently, three output stages combine to produce the resulting table. When line numbers are added to the table, they must be handled properly so that the text blocks all start by having the same output line number, though they may be different lengths and assembled in arbitrary order.

Complex table			
Item	Value	Value	Text
First	10	0.1	X
Second	5.2	10	X
This is a block of text in a table	1	2	Another text block, that will be deliberately longer

The final table test will be one with a header. This requires help from the -me macro package to put the header into a keep that will be included with the header of successive pages of the table's text. A suitably modified .TH macro is needed to handle possible line numbering properly.

Headed, multi-page table			
Item	Value	Value	Text
First	10	0.1	1
Next	5.2	10	2
Next	5.2	10	3
Next	5.2	10	4
Next	5.2	10	5
Next	5.2	10	6
Next	5.2	10	7
Next	5.2	10	8
Next	5.2	10	9
Next	5.2	10	10
Next	5.2	10	11
Next	5.2	10	12
Next	5.2	10	13
Next	5.2	10	14
Next	5.2	10	15
Next	5.2	10	16
Next	5.2	10	17
Next	5.2	10	18
Next	5.2	10	19
Next	5.2	10	20
Next	5.2	10	21
Next	5.2	10	22
Next	5.2	10	23
Next	5.2	10	24
Next	5.2	10	25
Next	5.2	10	26
Next	5.2	10	27
Next	5.2	10	28
Next	5.2	10	29
Next	5.2	10	30
Next	5.2	10	31
Next	5.2	10	32
Next	5.2	10	33
Next	5.2	10	34
Next	5.2	10	35

34	Headed, multi-page table			
35	Item	Value	Value	Text
Next	5.2	10	36	
Next	5.2	10	37	
Next	5.2	10	38	
Next	5.2	10	39	
Next	5.2	10	40	
Next	5.2	10	41	
Next	5.2	10	42	
Next	5.2	10	43	
Next	5.2	10	44	
Next	5.2	10	45	
Next	5.2	10	46	
Next	5.2	10	47	
Next	5.2	10	48	
Next	5.2	10	49	
Next	5.2	10	50	
Next	5.2	10	51	
Next	5.2	10	52	
Next	5.2	10	53	
Next	5.2	10	54	
Next	5.2	10	55	
Next	5.2	10	56	
Next	5.2	10	57	
Next	5.2	10	58	
Next	5.2	10	59	
Next	5.2	10	60	
Next	5.2	10	61	
Next	5.2	10	62	
Next	5.2	10	63	
Next	5.2	10	64	
Next	5.2	10	65	
Next	5.2	10	66	
Next	5.2	10	67	
Next	5.2	10	68	
Next	5.2	10	69	
Next	5.2	10	70	
Next	5.2	10	71	
Next	5.2	10	72	
Next	5.2	10	73	
Next	5.2	10	74	
Next	5.2	10	75	

Centered text

in a

block

> This is a quoted block in the page. This is a quoted block in the page. This is a quoted block in the page. This is a quoted block in the page.

Another centered text block

Item one in a list block in the page.
Item two in a list block in the page.
Item three in a list block in the page.
Item four in a list block in the page.