

The `texpower` Package

Simple Demo

Stephan Lehmke

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August 5, 2004

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1 A list environment

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1 A list environment

foo.

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1 A list environment

`foo.` `bar.`

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1 A list environment

`foo.` `bar.`

`baz.`

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1 A list environment

`foo.` `bar.`

`baz.` `qux.`

2 An aligned equation

2 An aligned equation

$$\sum_{i=1}^n i \tag{1}$$

(2)

(3)

(4)

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

(2)

(3)

(4)

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$\tag{3}$$

$$\tag{4}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= (1+n) + \cdots + (1+n) \tag{3}$$

$$\tag{4}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$\tag{4}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \underline{(1+n)} \tag{4}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\frac{n \log n \quad n \log n \quad n^2 \quad 2^n}{}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\frac{n \log n \quad n \log n \quad n^2 \quad 2^n}{0}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\frac{n \log n \quad n \log n \quad n^2 \quad 2^n}{0 \quad \text{---}}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\frac{n \quad \log n \quad n \log n \quad n^2 \quad 2^n}{0 \quad \quad \quad \quad \quad}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\begin{array}{ccccccc} n & \log n & n \log n & n^2 & 2^n \\ 0 & \text{---} & \text{---} & 0 & \end{array}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

$$\begin{array}{cccccc} n & \log n & n \log n & n^2 & 2^n & \\ \hline 0 & \text{—} & \text{—} & 0 & 1 & \end{array}$$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1				

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0			

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0		

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2				

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1			

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2		

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3				

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6			

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8		

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4				

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2			

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8		

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5				

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3			

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6		

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

4 A picture

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

4 A picture

$\xrightarrow{\hspace{1cm}}$
 $x(t)$

$\xrightarrow{\hspace{1cm}}$
 $y(t)$

2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

$$= \frac{(1+n) \cdot n}{2} \tag{4}$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

4 A picture



2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

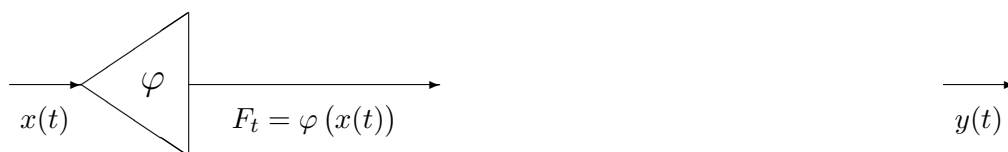
$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

4 A picture



2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \quad (1)$$

$$= 1 + n + 2 + (n-1) + \cdots \quad (2)$$

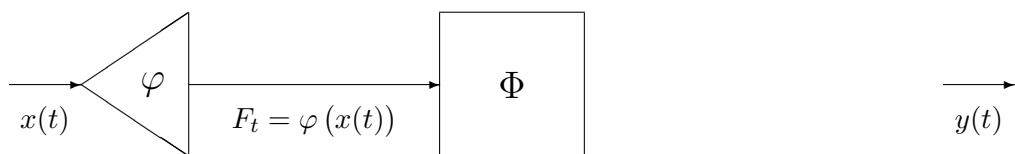
$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \quad (3)$$

$$= \frac{(1+n) \cdot n}{2} \quad (4)$$

3 An array

n	$\log n$	$n \log n$	n^2	2^n
0	—	—	0	1
1	0	0	1	2
2	1	2	4	4
3	1.6	4.8	9	8
4	2	8	16	16
5	2.3	11.6	25	32

4 A picture



2 An aligned equation

$$\sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n \tag{1}$$

$$= 1 + n + 2 + (n-1) + \cdots \tag{2}$$

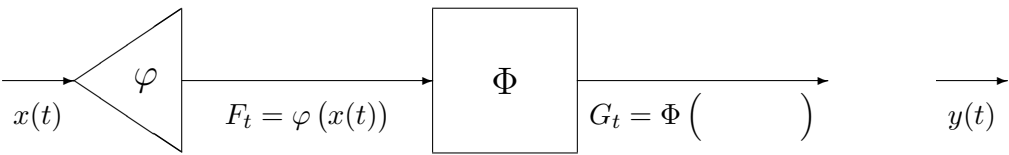
$$= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \tag{3}$$

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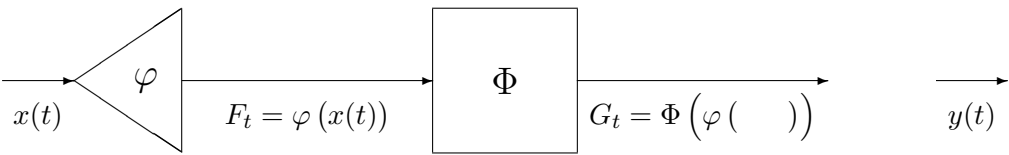
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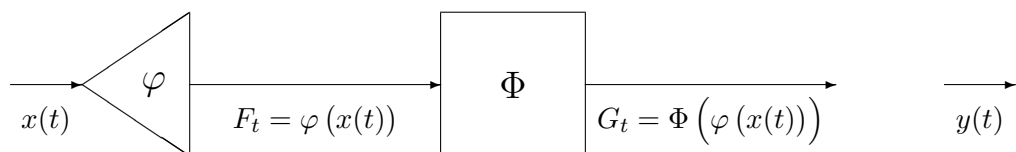
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