

Spreads.TimePeriod bits layout

<https://github.com/buybackoff/Spreads/tree/master/src/Period>

	Tick T	Milli L	Sec S	Min I	Hour H	Day D	Week W* (7D)	Month M	Quarter Q* (3M)	Year Y* (12M)	
63	Sign (not implemented, currently ignored)										
62	0	0	0	0	1	1	<-	1	<-	<-	Period
61	0	0	1	1	0	0	<-	1	Unit period**	<-	
60	0	1	0	1	0	1	<-	0	<-	<-	
59											
58	Number of ticks since zero (1/1/1900)	Number of base periods in a period, 0-1023. E.g. for 1 week it is 7, for 1 quarter it is 3, for 1 year it is 12									Period
57											
56											
55											
54											
53											
52											
51											
50											
49											
48	Months since zero (1/1/1900, 0-4096), takes 12 bits									Start Time in UTC	
47											
46											
45											
44											
43											
42											
41											
40											
39											
38	Days in a month (0-30), takes 5 bits									Start Time in UTC	
37											
36											
35											
34											
33											
32											
31											
30											
29											
28	Number of ticks since zero (1/1/1900)									Start Time in UTC	
27											
26											
25											
24											
23											
22											
21											
20											
19											
18	Milliseconds in a day (0- 86 400 000), takes 27 bits									Start Time in UTC	
17											
16											
15											
14											
13											
12											
11											
10											
9											
8										Optional additional info	
7											
6											
5											
4											
3											
2											
1											
0											
Optional offset to local as a signed int5. Is used to convert this UTC time to local time. Ignored for equality and comparison.											

* a shortcut for a composite period

** base period of 7 (111 in bin) is eternity, used for static/constant values