[【Boost】boost库中thread多线程详解7——wait与timed\_wait简单例子](http://blog.csdn.net/liujiayu2/article/details/50587016)

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1. **namespace**
2. {
3. **void** wait(**int** seconds)
4. {
5. boost::this\_thread::sleep(boost::posix\_time::seconds(seconds));
6. }
8. boost::mutex mu;
9. boost::condition\_variable\_any cond;
11. **void** test\_wait()
12. {
13. **while**(**true**)
14. {
15. boost::mutex::scoped\_lock lock(mu);
16. cond.wait(mu);
17. PRINT\_DEBUG(boost::this\_thread::get\_id() << "收到notify!");
18. }
19. }
21. **void** test\_timed\_wait() {
22. **while**(**true**)
23. {
24. boost::mutex::scoped\_lock lock(mu);
25. **if** (cond.timed\_wait(lock, boost::get\_system\_time() + boost::posix\_time::seconds(3)))
26. {
27. PRINT\_DEBUG("收到notify!");
28. } **else** {
29. PRINT\_DEBUG("超时, 没有收到Notify!");
30. }
31. }
32. }
33. }
35. **void** test\_thread\_wait()
36. {
37. boost::**thread** t1(test\_wait);
38. boost::**thread** t2(test\_wait);
39. boost::**thread** t3(test\_wait);
40. boost::**thread** t4(test\_wait);
41. **while** (**true**)
42. {
43. wait(1);
44. cond.notify\_one();
45. }
46. }
48. **void** test\_thread\_timed\_wait()
49. {
50. boost::**thread** t1(test\_timed\_wait);
51. **while** (**true**)
52. {
53. system("pause");
54. cond.notify\_one();
55. }
56. }