

```

1 int multi_getaddrinfo3(
2     const char **nodes, const char **services,
3     const struct addrinfo *hints,
4     struct addrinfo **ress, int n, int max_conc )
5 {
6     activity_t acts[ n ];
7     semaphore_t governor;
8     sem_init( &governor, max_conc );
9     for( int i = 0; i < n; ++i ) {
10         activate[ &acts[i] ]( i ) {
11             sem_decr( &governor );
12             printf( "activity %i lookup %s\n",
13                 i, nodes[ i ] );
14             if( getaddrinfo( nodes[ i ],
15                 services[ i ], hints, ress[ i ] ) ) {
16                 ress[ i ] = NULL;
17                 ++num_failed;
18             }
19             sem_incr( &governor );
20         } }
21     for( int i = 0; i < n; ++i )
22         activity_wait( &acts[i] );
23     return num_failed;
24 }

```