package jdk.test;

import org.openjdk.jmh.annotations.Benchmark;
import org.openjdk.jmh.infra.Blackhole;

import java.net.InetAddress;
import java.net.UnknownHostException;

public class InetAddressBench {

    @Benchmark
    public void getLocalHost(Blackhole bh) throws UnknownHostException {
        bh.consume(InetAddress.getLocalHost());
    }

    @Benchmark
    public void getByNamePositive(Blackhole bh) throws UnknownHostException {
        bh.consume(InetAddress.getByName("www.google.com"));
    }

    @Benchmark
    public void getByNameNegative(Blackhole bh) throws UnknownHostException {
        try {
            InetAddress.getByName("unexistent.domain");
            throw new AssertionError("Should not reach here");
        } catch (UnknownHostException e) {
            bh.consume(e);
        }
    }
}
<table>
<thead>
<tr>
<th>Threads</th>
<th>getByNameNegative(orig)</th>
<th>getByNameNegative(patch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>795,578</td>
<td>875,750</td>
</tr>
<tr>
<td>2</td>
<td>1,677,871</td>
<td>1,909,284</td>
</tr>
<tr>
<td>3</td>
<td>2,220,486</td>
<td>2,767,569</td>
</tr>
<tr>
<td>4</td>
<td>2,884,991</td>
<td>3,611,147</td>
</tr>
<tr>
<td>5</td>
<td>3,037,563</td>
<td>3,501,730</td>
</tr>
<tr>
<td>6</td>
<td>3,189,525</td>
<td>3,784,470</td>
</tr>
<tr>
<td>7</td>
<td>3,253,920</td>
<td>3,785,778</td>
</tr>
<tr>
<td>8</td>
<td>3,737,189</td>
<td>3,844,710</td>
</tr>
</tbody>
</table>

The graph shows the cumulative throughput (in ops/s) for the methods `getByNameNegative(orig)` and `getByNameNegative(patch)` against the number of threads. The throughput increases as the number of threads increases, indicating better performance with more threads.