Zadatak C - Rešenje.

Listing 1 – Paralelna implementacija *JobServiceProvider* klase.

```
public int DoCalculus(int to)
        {
            Trace.WriteLine(String.Format("DoCalculus method called - interval [1,{0}]",
to.ToString()), "Information");
            // all internal endpoints of all worker role processes not including this
worker role process
            List<EndpointAddress> internalEndpoints =
RoleEnvironment.Roles[RoleEnvironment.CurrentRoleInstance.Role.Name].Instances.Where(inst
ance => instance.Id != RoleEnvironment.CurrentRoleInstance.Id).Select(process => new
EndpointAddress(String.Format("net.tcp://{0}/{1}",
process.InstanceEndpoints[internalEndpointName].IPEndpoint.ToString(),
internalEndpointName))).ToList();
            int brotherInstances = internalEndpoints.Count;
            int totalSum = 0;
            Task<int>[] tasks = new Task<int>[brotherInstances];
            for (int i = 0; i < brotherInstances; i++)</pre>
                Trace.WriteLine(String.Format("Calling node at: {0}",
internalEndpoints[i].ToString()), "Information");
                int index = i;
                Task<int> calculatePartialSum = new Task<int>(() =>
                    IPartialJob proxy = new ChannelFactory<IPartialJob>(binding,
internalEndpoints[index]).CreateChannel();
                    return proxy.DoSum(0, to);
                calculatePartialSum.Start();
                tasks[index] = calculatePartialSum;
            }
            Task.WaitAll(tasks);
            foreach (Task<int> task in tasks)
                totalSum += task.Result;
            return totalSum;
        }
```