ET 框架学习笔记(二) - - 网络交互相关

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Net 网络交互相关

NetInnerComponent: 【服务端】对不同进程的处理组件。 是服务器的组件

```
namespace ET.Server {
   // 【服务器】: 对不同进程的一些处理
   public struct ProcessActorId {
       public int Process;
       public long ActorId;
       public ProcessActorId(long actorId) {
           InstanceIdStruct instanceIdStruct = new InstanceIdStruct(actorId);
           this.Process = instanceIdStruct.Process;
           instanceIdStruct.Process = Options.Instance.Process;
           this.ActorId = instanceIdStruct.ToLong();
   }
   public struct NetInnerComponentOnRead {
       public long ActorId;
       public object Message;
   [ComponentOf(typeof(Scene))]
   public class NetInnerComponent: Entity, IAwake<IPEndPoint>, IAwake, IDestroy {
       public int ServiceId;
       public NetworkProtocol InnerProtocol = NetworkProtocol.KCP;
       [StaticField]
       public static NetInnerComponent Instance;
   }
```

NetInnerComponentSystem: 生成系

```
[FriendOf(typeof(NetInnerComponent))]
public static class NetInnerComponentSystem {
    [ObjectSystem]
    public class NetInnerComponentAwakeSystem: AwakeSystemNetInnerComponent> {
        protected override void Awake(NetInnerComponent self) {
            NetInnerComponent.Instance = self;
            switch (self.InnerProtocol) {
                case NetworkProtocol.TCP: {
                    self.ServiceId = NetServices.Instance.AddService(new TService(AddressFamily.InterNetwork, ServiceType.I
                case NetworkProtocol.KCP: {
                    self.ServiceId = NetServices.Instance.AddService(new KService(AddressFamily.InterNetwork, ServiceType.I
```

```
break:
                           }
                  NetServices.Instance.RegisterReadCallback(self.ServiceId, self.OnRead);
                  NetServices.Instance.RegisterErrorCallback(self.ServiceId, self.OnError);
[ObjectSystem]
public class NetInnerComponentAwake1System: AwakeSystemNetInnerComponent, IPEndPoint> {
         protected override void Awake(NetInnerComponent self, IPEndPoint address) {
                  NetInnerComponent.Instance = self;
                  switch (self.InnerProtocol) {
                            case NetworkProtocol.TCP: {
                                     self.ServiceId = NetServices.Instance.AddService(new TService(address, ServiceType.Inner));
                           }
                            case NetworkProtocol.KCP: {
                                     self.ServiceId = NetServices.Instance.AddService(new KService(address, ServiceType.Inner));
                           }
                   3
                  NetServices.Instance.RegisterAcceptCallback(self.ServiceId, self.OnAccept);
                  NetServices.Instance.RegisterReadCallback(self.ServiceId, self.OnRead);
                  NetServices.Instance.RegisterErrorCallback(self.ServiceId, self.OnError);
         }
[ObjectSystem]
public class NetInnerComponentDestroySystem: DestroySystem<NetInnerComponent> {
         protected override void Destroy(NetInnerComponent self) {
                  NetServices.Instance.RemoveService(self.ServiceId);
private static void OnRead(this NetInnerComponent self, long channelId, long actorId, object message) {
         Session session = self.GetChild<Session>(channelId);
         if (session == null)
                  return:
         session.LastRecvTime = TimeHelper.ClientFrameTime();
         self.HandleMessage(actorId, message);
public static void HandleMessage(this NetInnerComponent self, long actorId, object message) {
         EventSystem.Instance.Publish(Root.Instance.Scene, new NetInnerComponentOnRead() { ActorId = actorId, Message = mess
private static void OnError(this NetInnerComponent self, long channelId, int error) {
         Session session = self.GetChild<Session>(channelId);
         if (session == null)
                  return:
         session.Error = error:
         session.Dispose();
}
// 这个 channelId 是由 CreateAcceptChannelId 生成的
private static void OnAccept(this NetInnerComponent self, long channelId, IPEndPoint ipEndPoint) {
         Session session = self.AddChildWithId<Session, int>(channelId, self.ServiceId);
         session.RemoteAddress = ipEndPoint;
         //\ session. Add Component < Session Idle Checker Component, int, int, int) < (Net Thread Component. check Interal, Net Thread Component, int) < (Net Thre
}
private static Session CreateInner(this NetInnerComponent self, long channelId, IPEndPoint ipEndPoint) {
         Session session = self.AddChildWithId<Session, int>(channelId, self.ServiceId);
         session.RemoteAddress = ipEndPoint;
         NetServices.Instance.CreateChannel(self.ServiceId, channelId, ipEndPoint);
         // session.AddComponent<InnerPingComponent>();
         //\ session. Add Component < SessionIdle Checker Component, int, int, int) < (Net Thread Component. check Interal, Net Thread Component) < (Net 
         return session;
// 内网 actor session, channelId 是进程号
public static Session Get(this NetInnerComponent self, long channelId) {
         Session session = self.GetChild<Session>(channelId);
         if (session != null)
                   return session;
         IPEndPoint ipEndPoint = StartProcessConfigCategory.Instance.Get((int) channelId).InnerIPPort;
         session = self.CreateInner(channelId, ipEndPoint);
         return session:
}
```

}