

DRQ什么时候调度Node去填写dependency

Pipeline调度Node的sequenceId 0执行

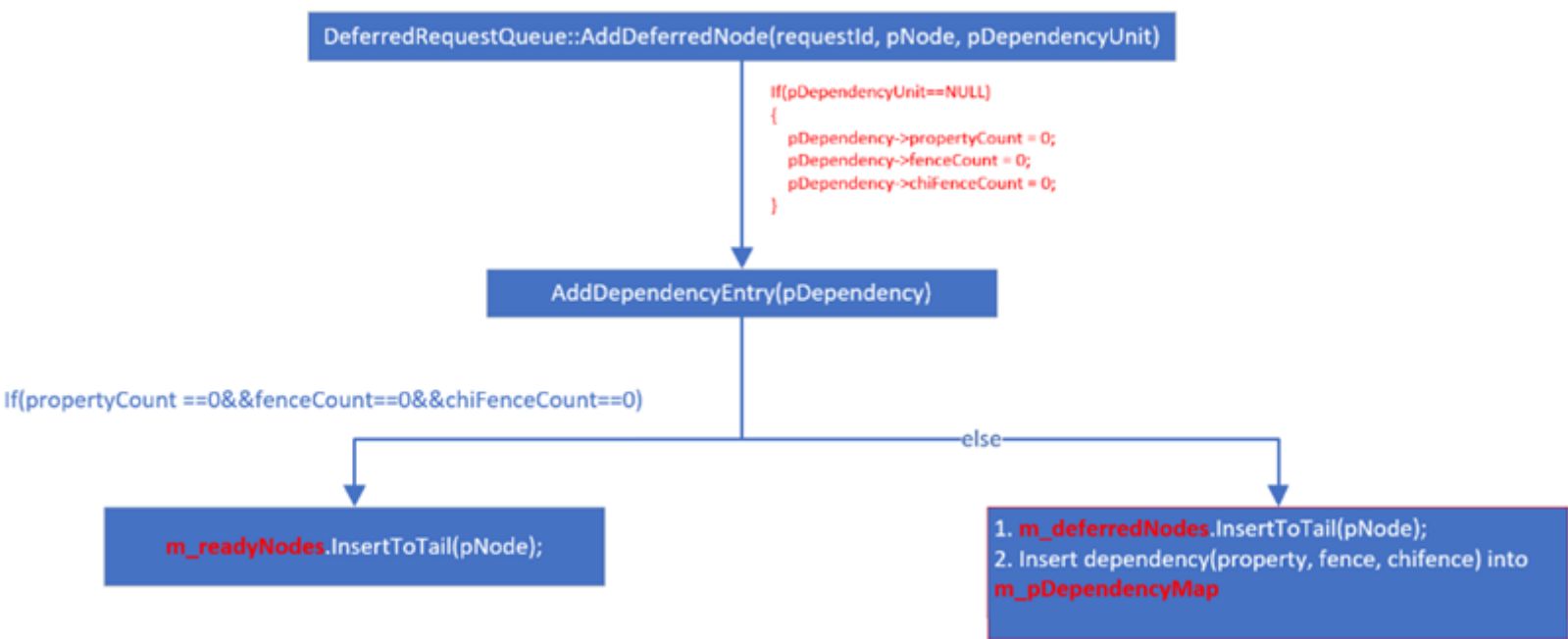
```

Pipeline::ProcessRequest()
{
    for (UINT nodeId = 0; nodeId < m_orderedNodeCount ; nodeId++)
        m_pDeferredRequestQueue->AddDeferredNode(requestId, m_ppOrderedNodes[nodeId], NULL); //最后一个参数pDependencyUnit为NULL
    m_pDeferredRequestQueue->DispatchReadyNodes();
}

```

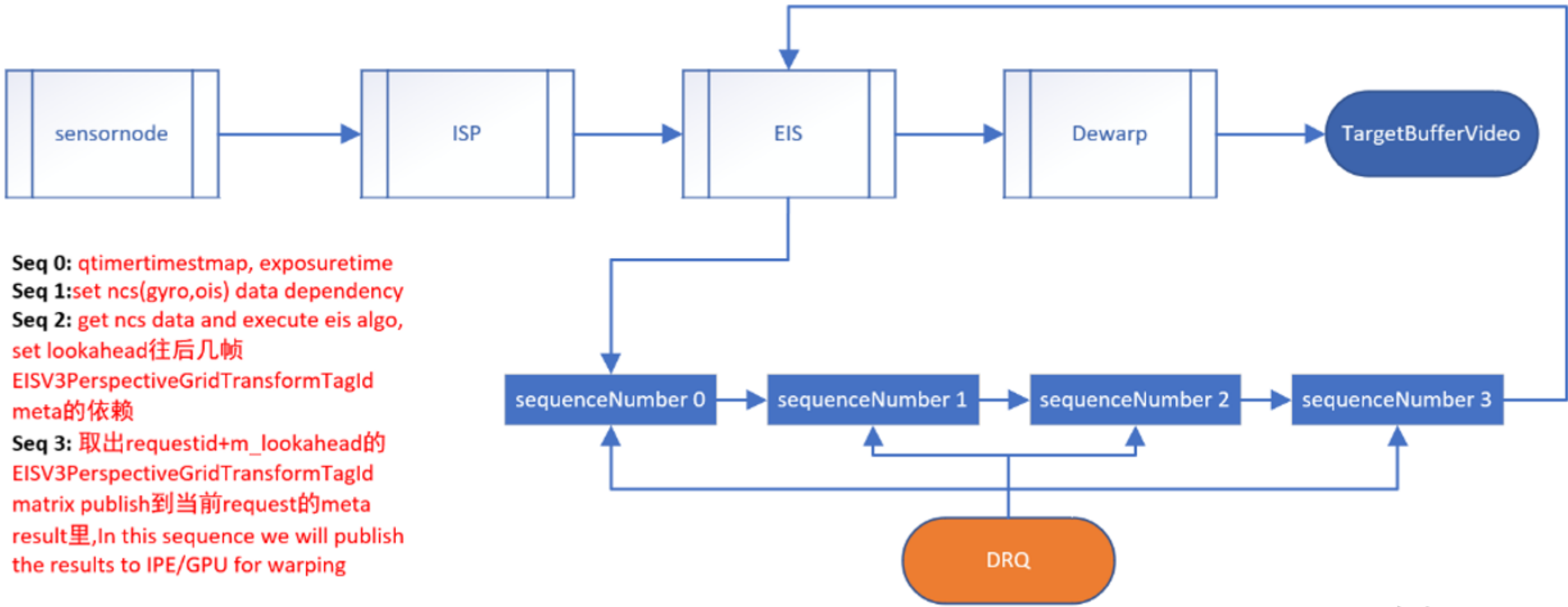
每个node seq id 0基本都是填写自己的dependency

添加deferred node流程



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Node内部的ProcessSequenceId



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如何填写dependency

如何填写property dependency

```

DeferredRequestQueue::DispatchReadyNodes()
{
    while (0 < m_readyNodes.NumNodes())
    {
        pReady      = m_readyNodes.Head();
        pDependency = static_cast<Dependency*>(pReady->pData);
        VOID* pData[] = {pDependency, NULL};
        m_pThreadManager->PostJob(m_hDeferredWorker, NULL, &pData[0], FALSE, FALSE);
    }
}

DeferredRequestQueue::DeferredWorkerWrapper()
{
    pDeferredQueue->DeferredWorkerCore(pDependency);
    Node::ProcessRequest(&processRequest, pDependency->requestId);
    IPE::ExecuteProcessRequest(&executeProcessData);
    IPE::SetDependencies()
        pNodeRequestData->dependencyInfo[0].propertyDependency.properties[rCount++] = metaTag;
        pNodeRequestData->dependencyInfo[0].dependencyFlags.hasPropertyDependency = TRUE;
}

```

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如何填写fence dependency(camxnode)

```
DeferredRequestQueue::DispatchReadyNodes()
{
    while (0 < m_readyNodes.NumNodes())
    {
        pReady      = m_readyNodes.Head();
        pDependency = static_cast<Dependency*>(pReady->pData);
        VOID* pData[] = {pDependency, NULL};
        m_pThreadManager->PostJob(m_hDeferredWorker, NULL, &pData[0], FALSE, FALSE);
    }
}

DeferredRequestQueue::DeferredWorkerWrapper()
{
    pDeferredQueue->DeferredWorkerCore(pDependency);
    Node::ProcessRequest(&processRequest, pDependency->requestId);
    IPE::ExecuteProcessRequest(&executeProcessData);
    IPE::SetDependencies()
    Node::SetInputBuffersReadyDependency(pExecuteProcessRequestData, 0);
    for (UINT portIndex = 0; portIndex < pEnabledPorts->numInputPorts; portIndex++)
    {
        PerRequestInputPortInfo* pPort = &pEnabledPorts->pInputPorts[portIndex];
        pDependencyUnit->bufferDependency.phFences[fenceCount] = pPort->phFence;
        pDependencyUnit->bufferDependency.pIsFenceSignaled[fenceCount] = pPort->pIsFenceSignaled;
    }
}
```

如何填写fence dependency(chi node)

```
DeferredRequestQueue::DispatchReadyNodes()
{
    while (0 < m_readyNodes.NumNodes())
    {
        pReady      = m_readyNodes.Head();
        pDependency = static_cast<Dependency*>(pReady->pData);
        VOID* pData[] = {pDependency, NULL};
        m_pThreadManager->PostJob(m_hDeferredWorker, NULL, &pData[0], FALSE, FALSE);
    }
}

DeferredRequestQueue::DeferredWorkerWrapper()
{
    pDeferredQueue->DeferredWorkerCore(pDependency);
    Node::ProcessRequest(&processRequest, pDependency->requestId);
    ChiNodeWrapper::ExecuteProcessRequest(&executeProcessData);
    UINT fenceCount = pNodeRequestData->dependencyInfo[0].bufferDependency.fenceCount;
    pNodeRequestData->dependencyInfo[0].bufferDependency.phFences[fenceCount] = pInputPort->phFence;
    pNodeRequestData->dependencyInfo[0].bufferDependency.pIsFenceSignaled[fenceCount] = pInputPort->pIsFenceSignaled;
}
```

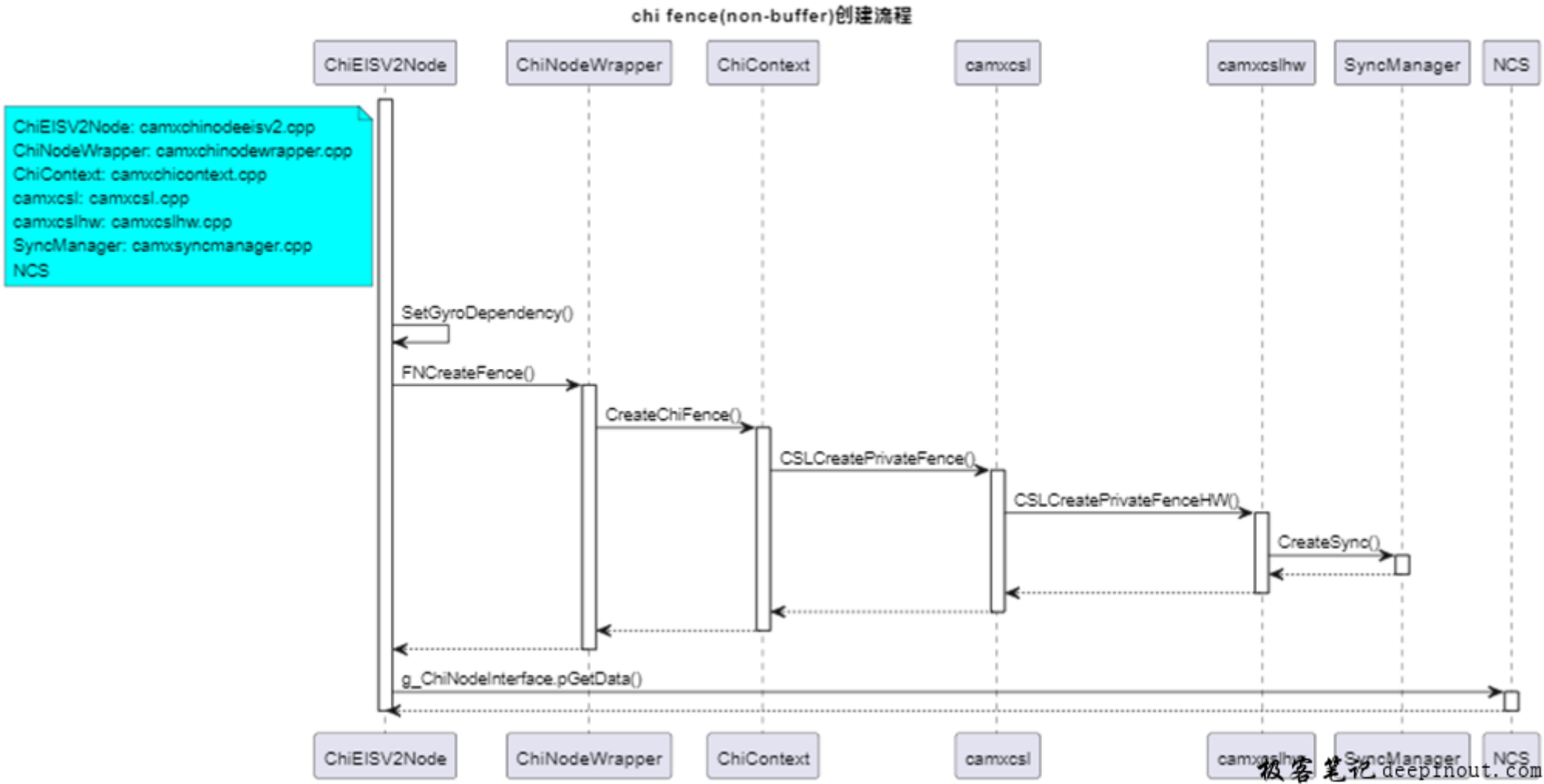
如何填写chi fence dependency

```
DeferredRequestQueue::DispatchReadyNodes()
{
    while (0 < m_readyNodes.NumNodes())
    {
        pReady      = m_readyNodes.Head();
        pDependency = static_cast<Dependency*>(pReady->pData);
        VOID* pData[] = {pDependency, NULL};
        m_pThreadManager->PostJob(m_hDeferredWorker, NULL, &pData[0], FALSE, FALSE);
    }
}

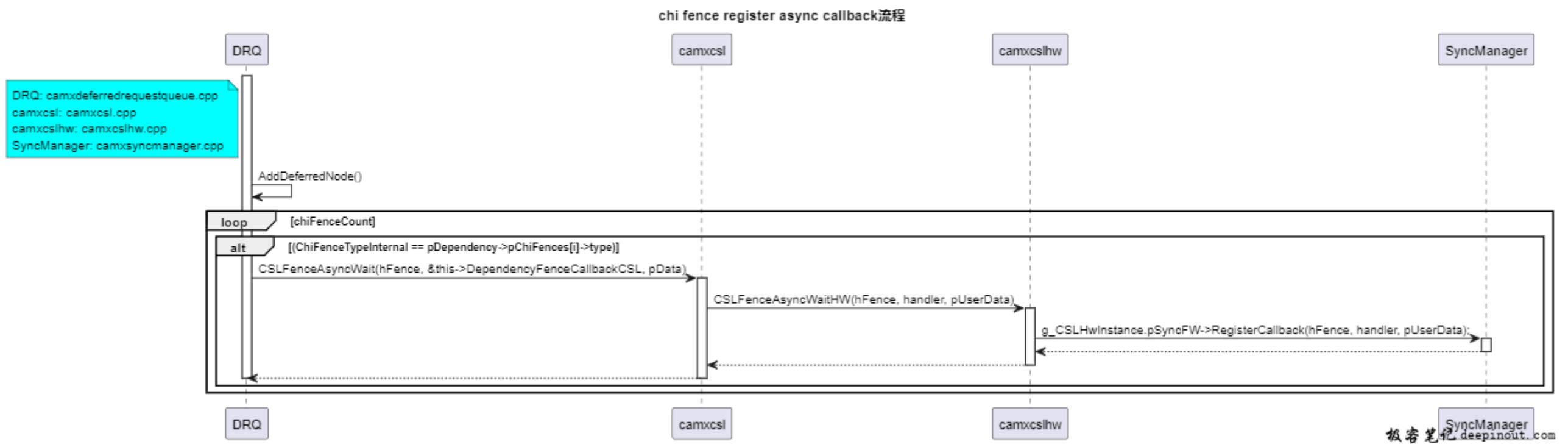
DeferredRequestQueue::DeferredWorkerWrapper()
{
    pDeferredQueue->DeferredWorkerCore(pDependency);
    Node::ProcessRequest(&processRequest, pDependency->requestId);
    ChiNodeWrapper::ExecuteProcessRequest(&executeProcessData);
    for (UINT i = 0; i < info.pDependency->chiFenceCount; i++)
    {
        CHIFENCEHANDLE hChiFence = info.pDependency->pChiFences[i];
        pNodeRequestData->dependencyInfo[0].chiFenceDependency.pChiFences[i] = static_cast<ChiFence*>(hChiFence);
    }
}
```

Chi Fence(non-buffer) API调用详解

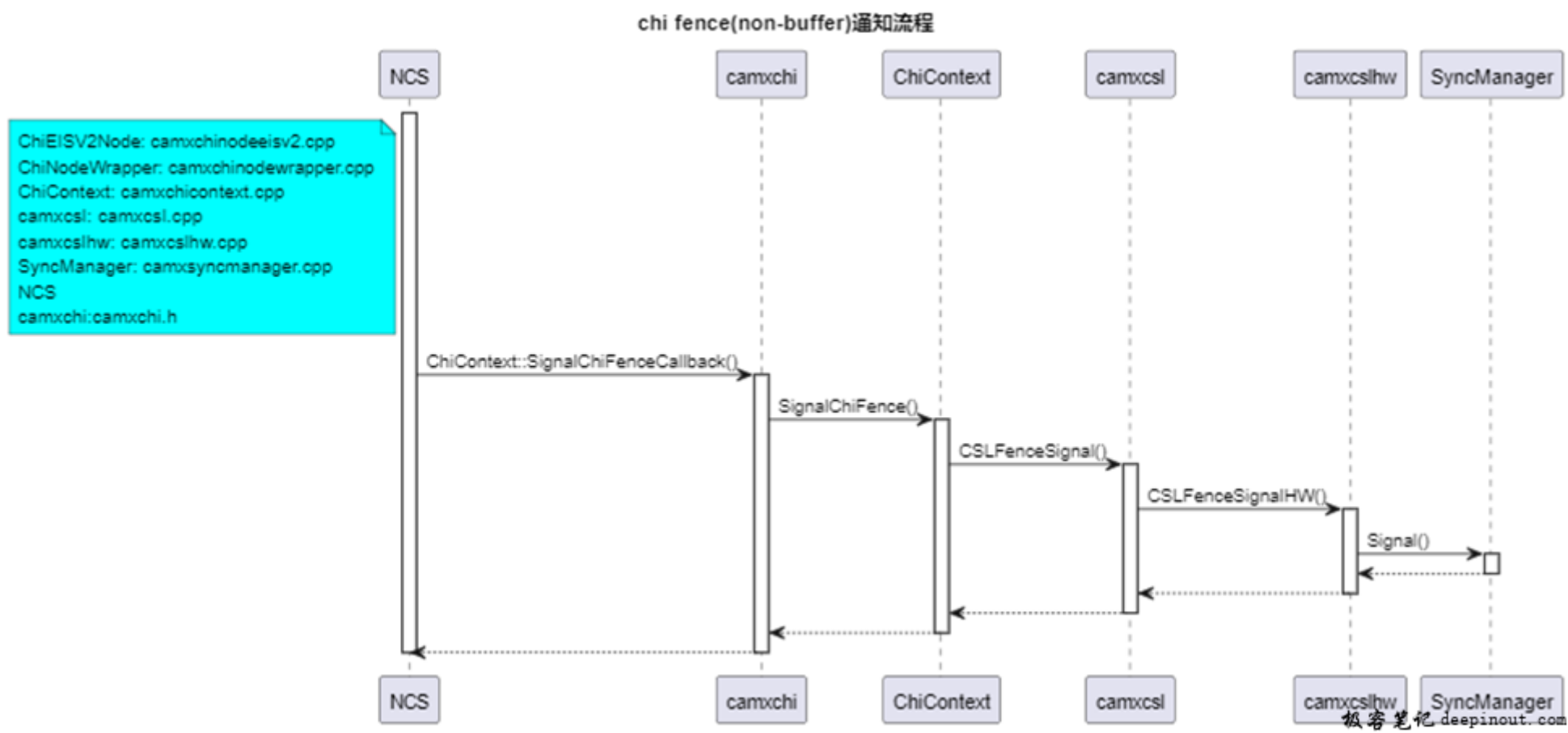
Chi Fence(non-buffer) Create举例(EISV2)



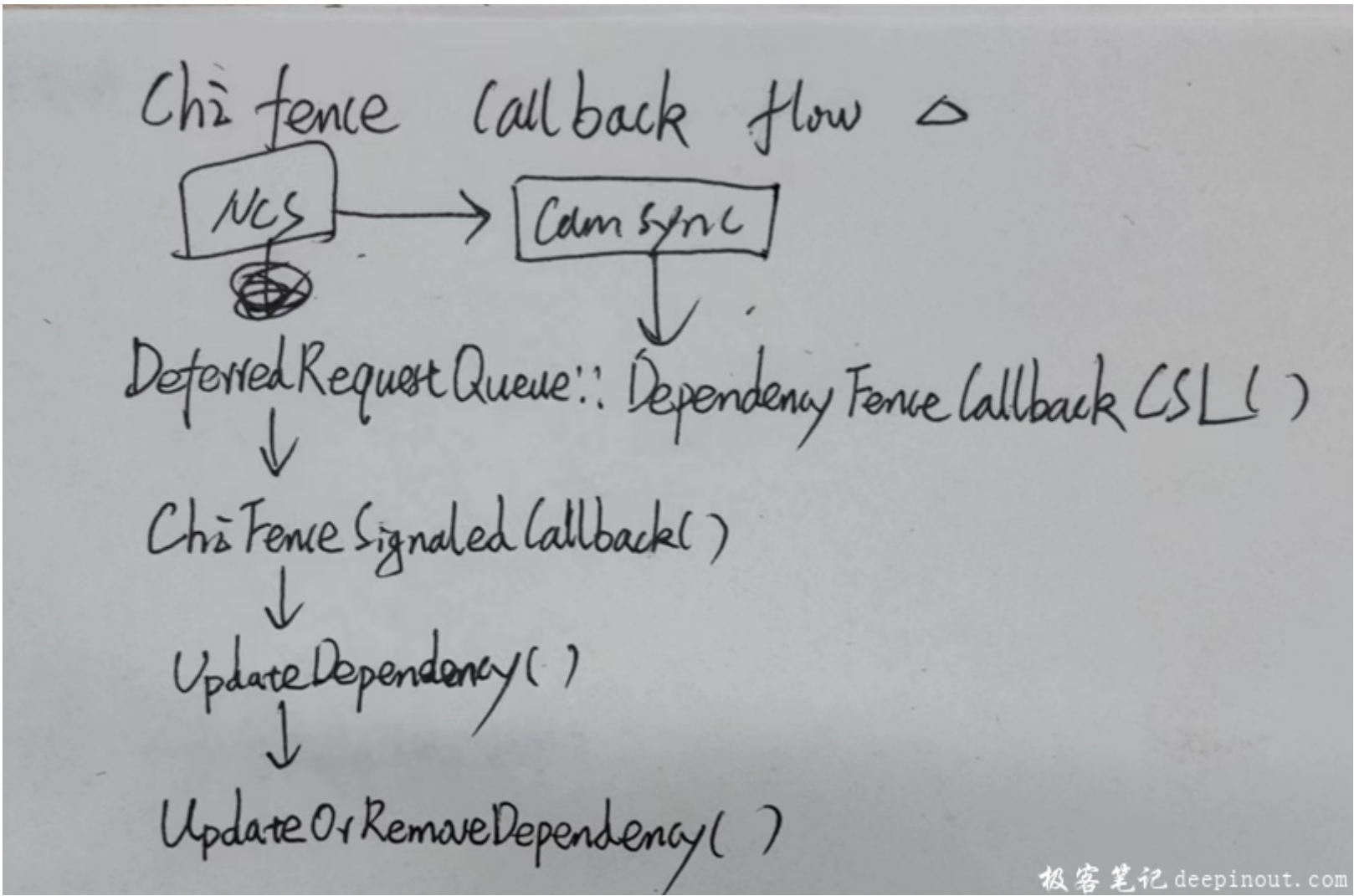
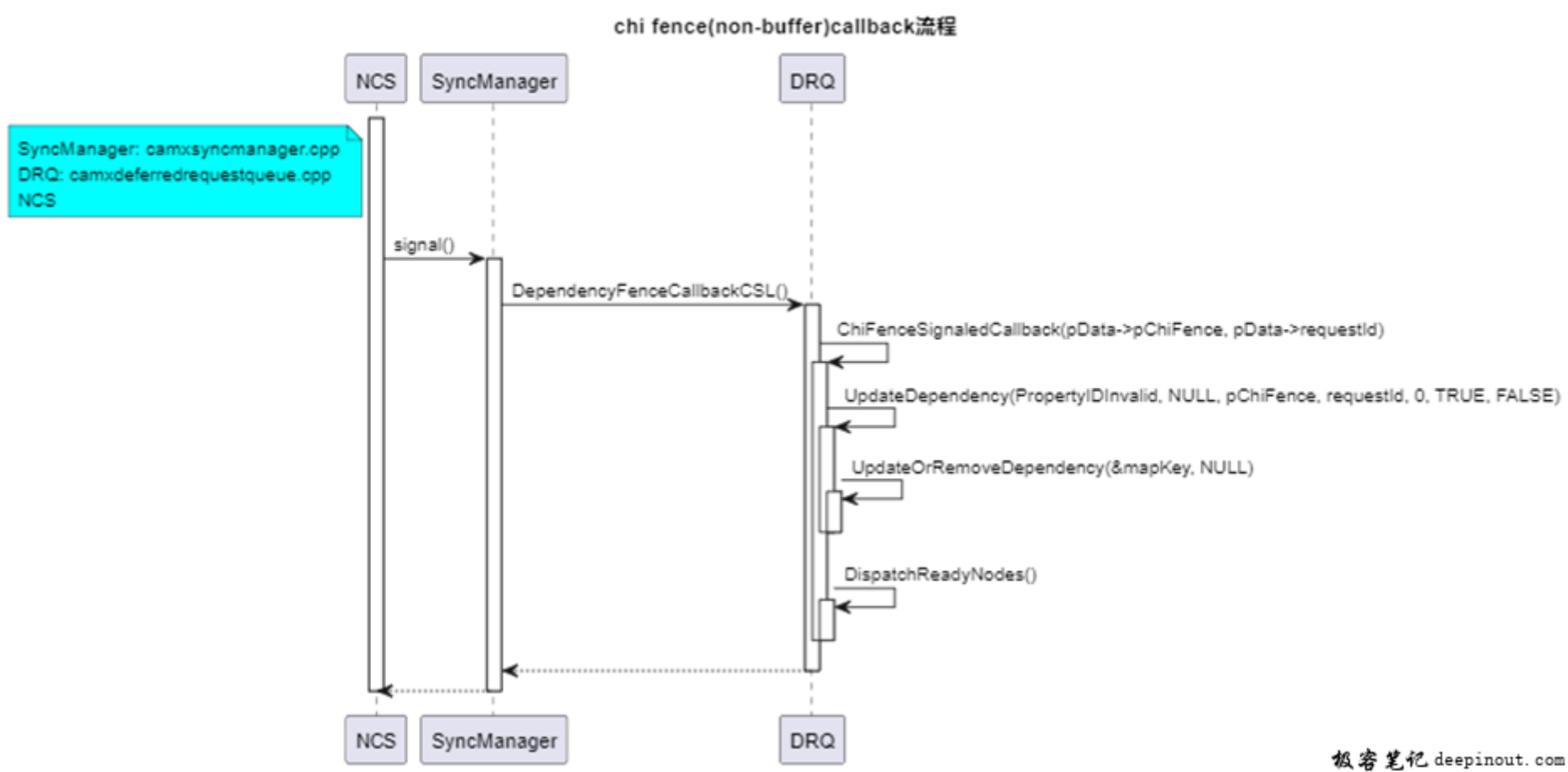
Chi Fence(non-buffer) 注册async callback



Chi Fence(non-buffer) Signal举例(EISV2)



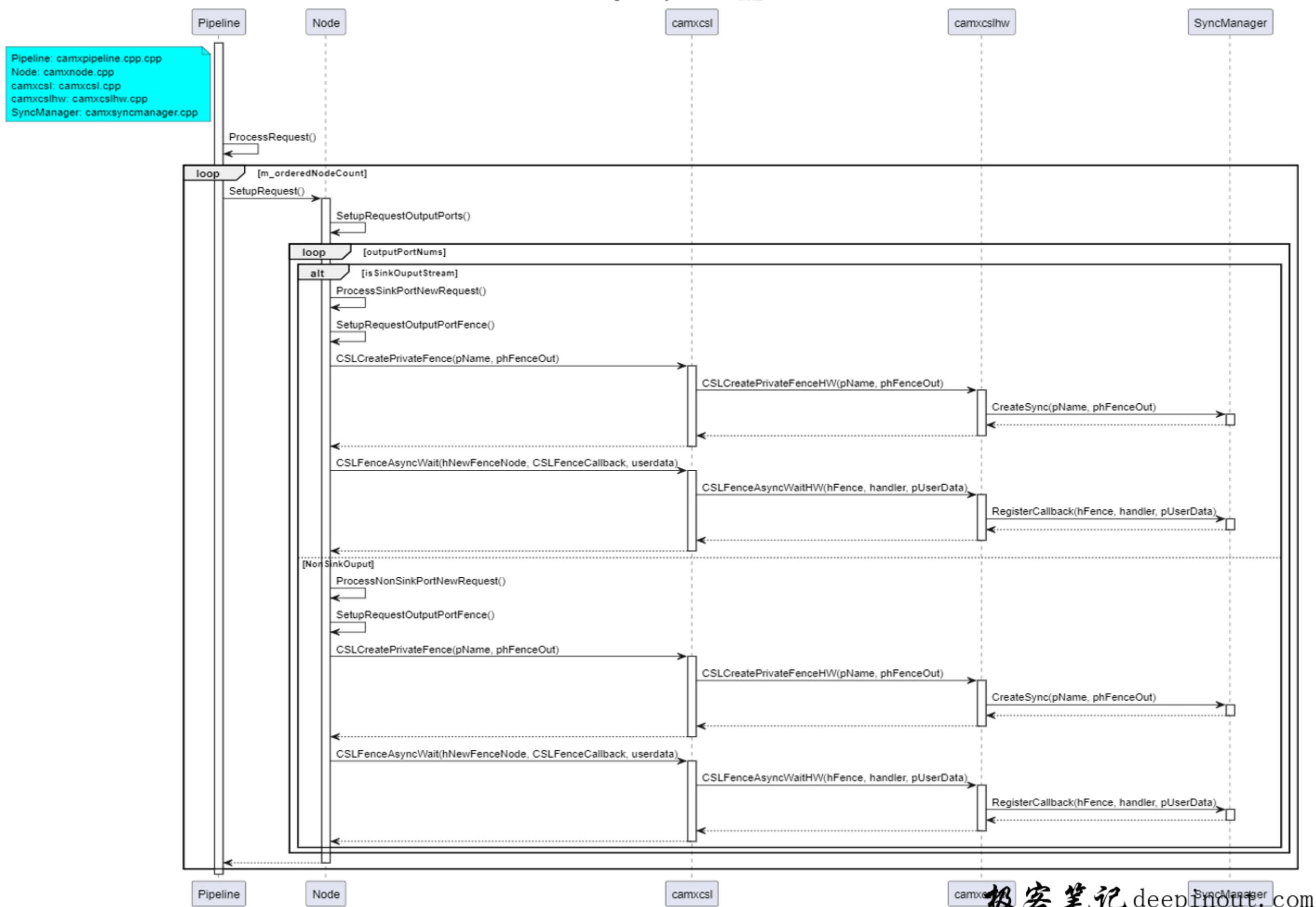
CHI Fence (non-buffer) callback flow



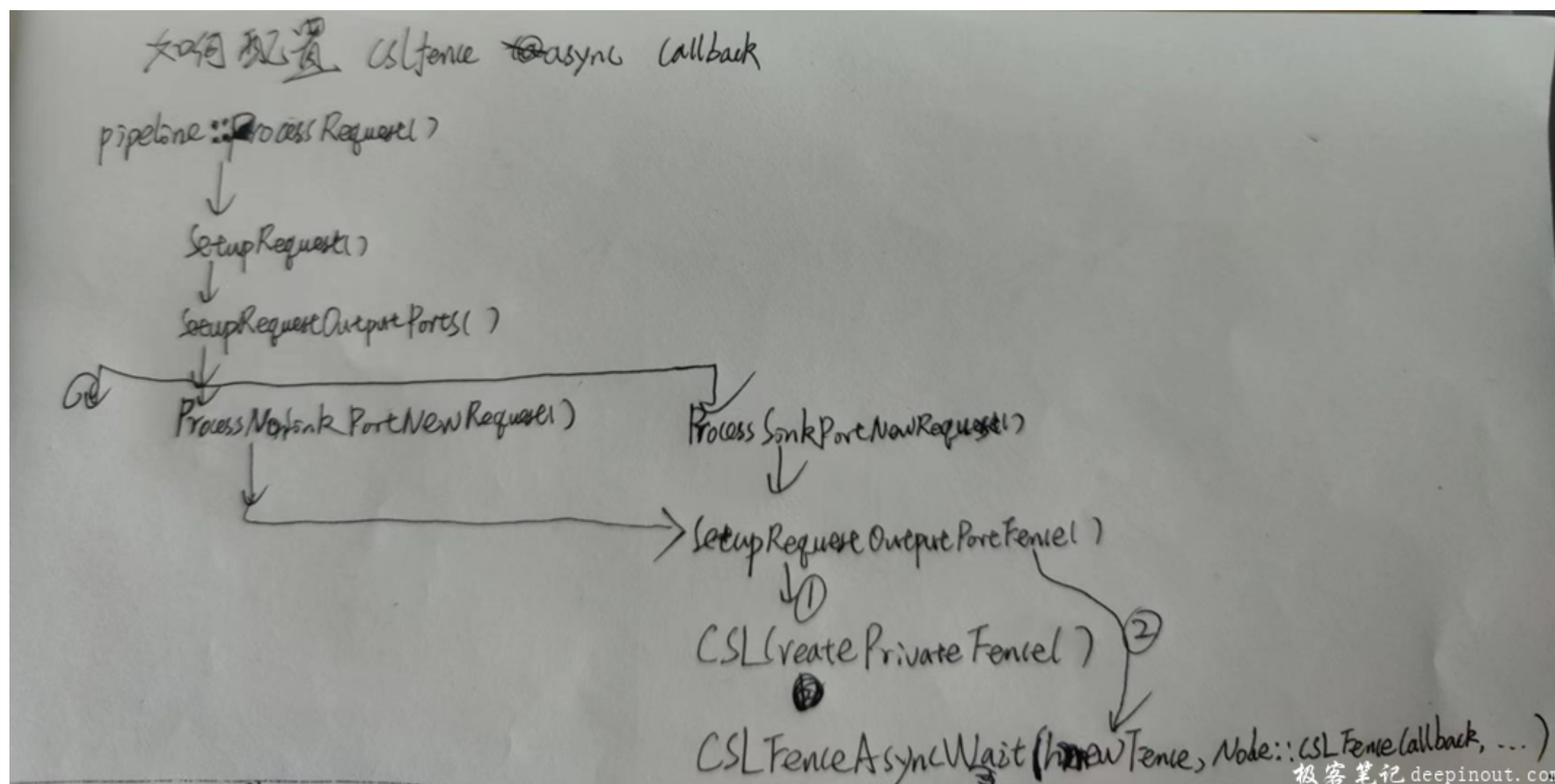
CSL Fence(buffer) async/callback详解

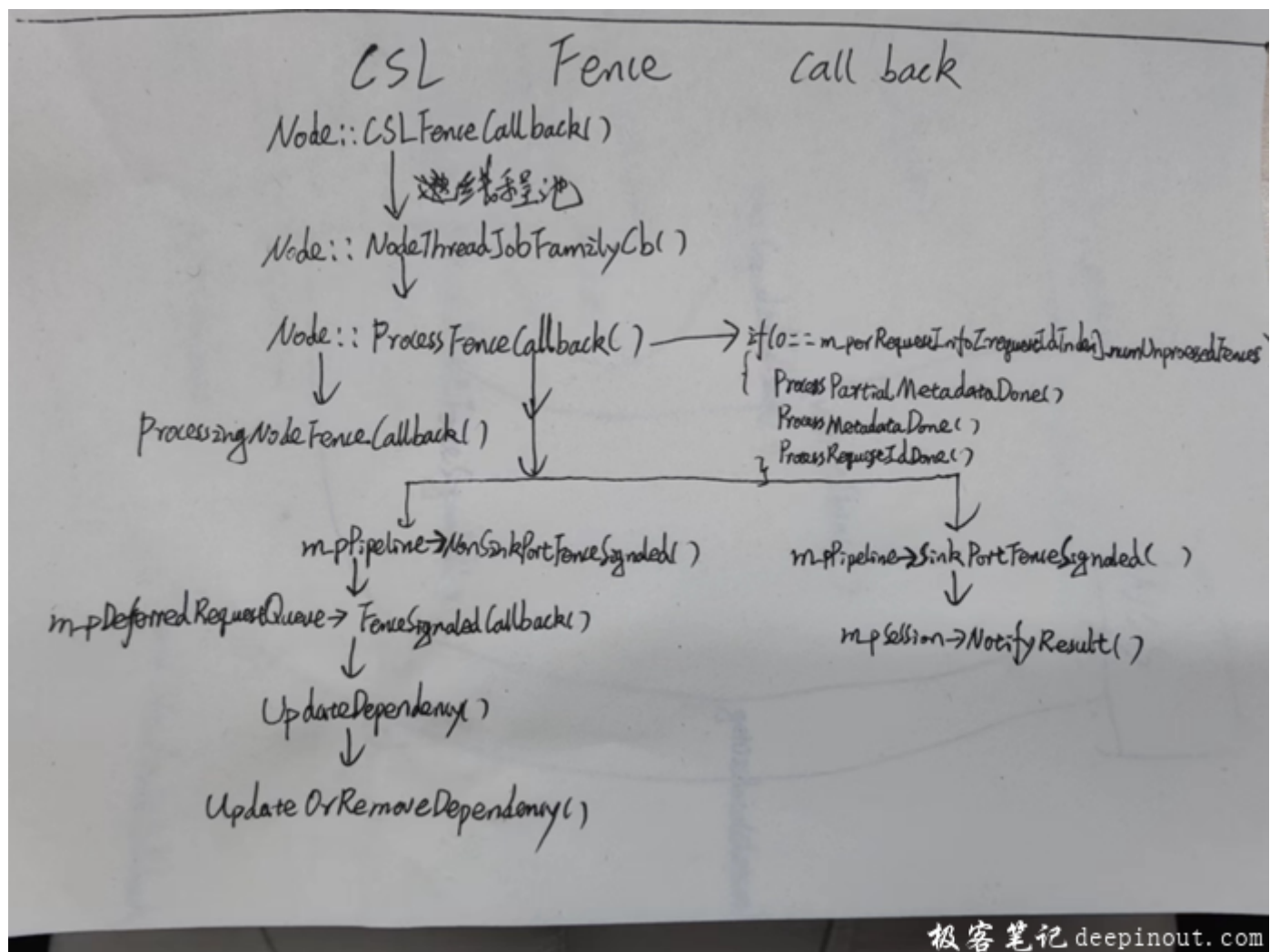
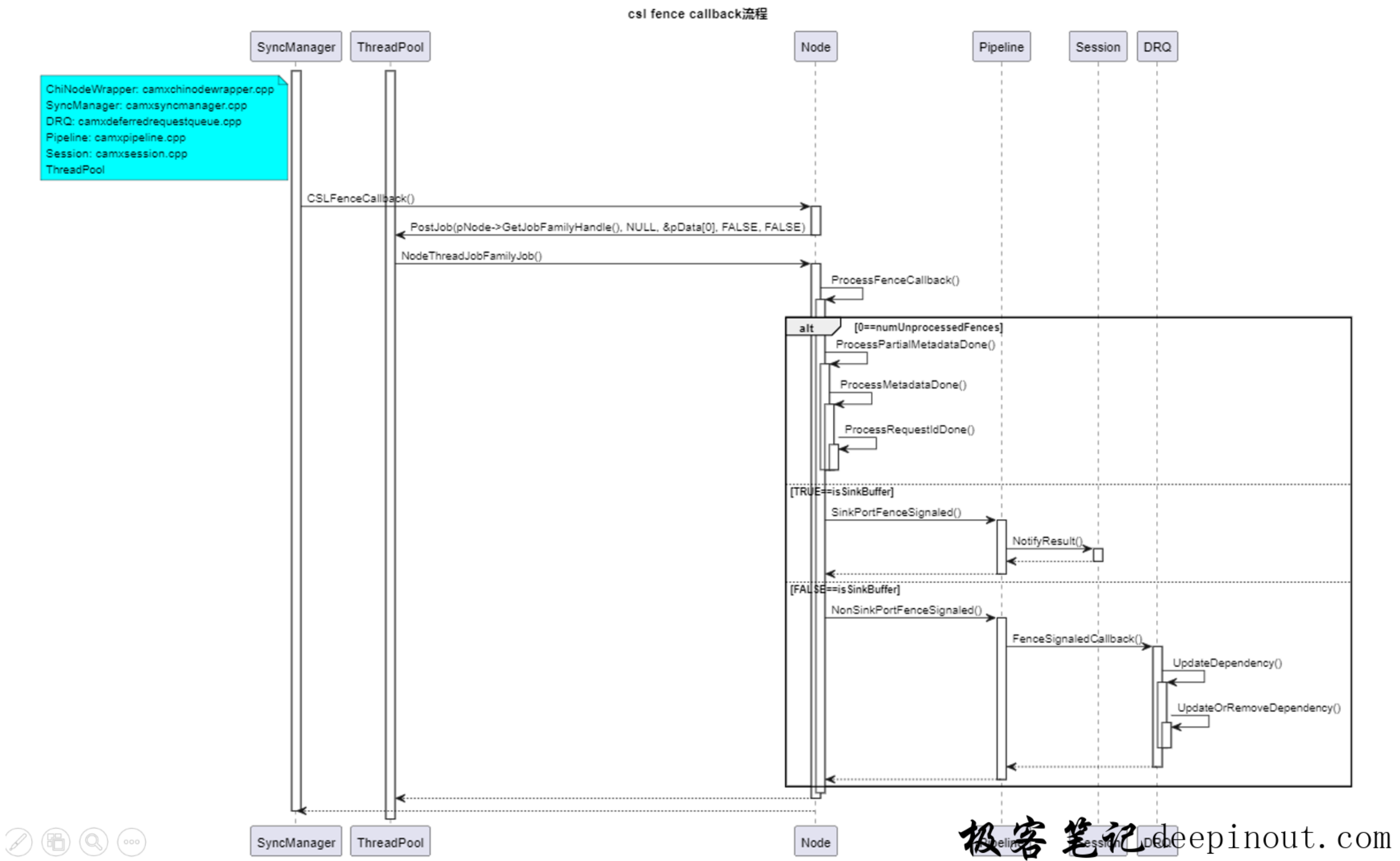
CSL Fence 注册async callback

csl fence register async callback流程



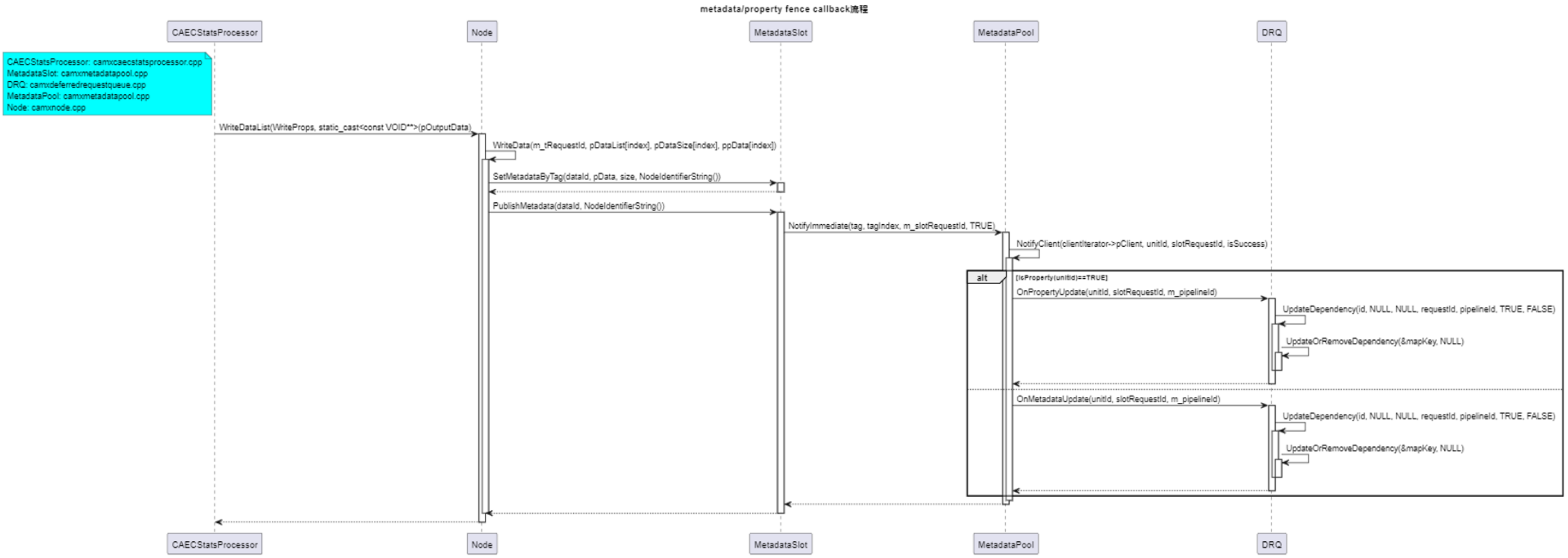
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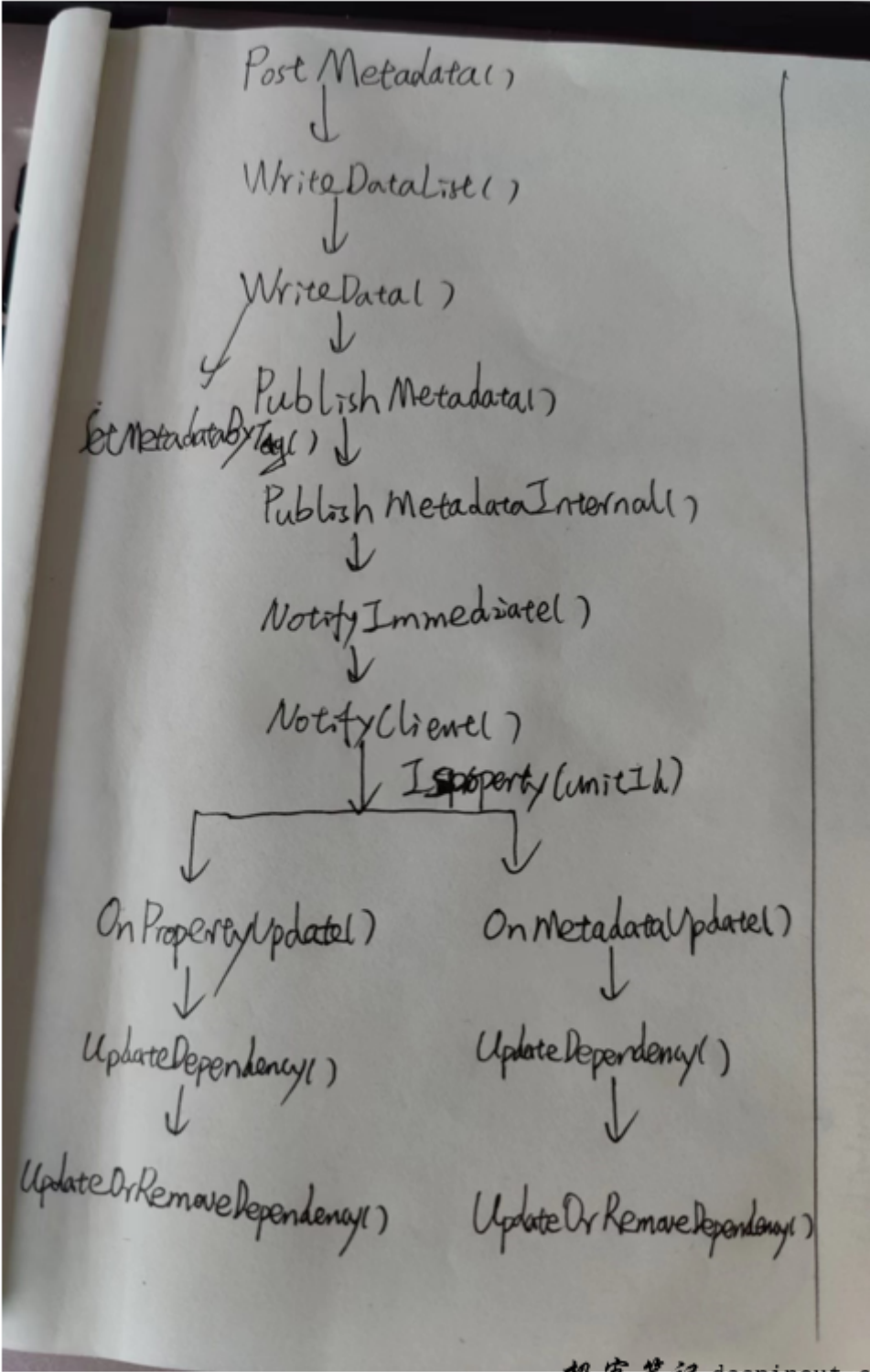


Metadata/property update 详解

Property/metadata callback flow

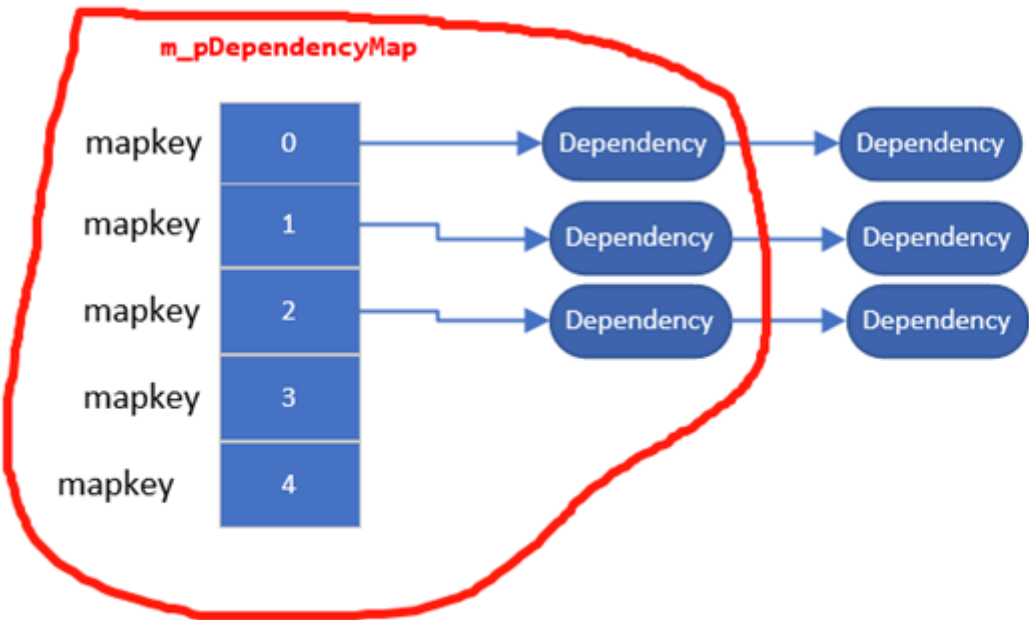


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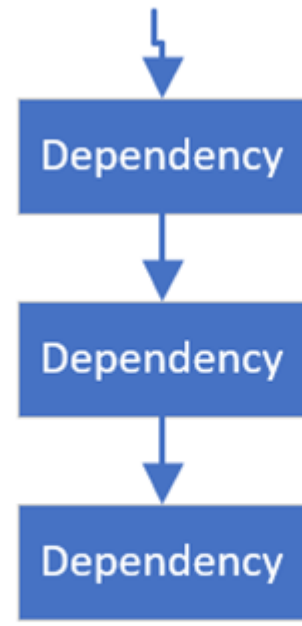
Dependency HashMap结构



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m_deferredNodes与m_readyNodes结构

m_deferredNodes



m_readyNodes

