

The call graph visualization illustrates the execution flow of the Hyperledger Fabric client channel creation process. The graph is composed of nodes representing function calls, connected by edges indicating the sequence of execution. The nodes are color-coded: red for the initial client channel creation, orange for intermediate processing, and grey for final verification and cleanup. The edges are labeled with the execution time and the percentage of the total time spent on that function.

Key Nodes and Functions:

- Initial Client Channel Creation (Red Nodes):**
 - `github.com/hyperledger/fabric-sdk-go/pkg/client/channel (*Client) InvokeHandler func2` (0 of 16.07s (0.82%))
 - `github.com/hyperledger/fabric-sdk-go/pkg/client/channel/Invoke (*SelectAndInvokeHandler) Handle` (0 of 16.04s (0.09%))
- Intermediate Processing (Orange Nodes):**
 - `github.com/hyperledger/fabric-sdk-go/pkg/client/common/verify (*Verify) Verify` (0 of 4.14s (18.25%))
 - `github.com/hyperledger/fabric-sdk-go/pkg/fab/channel/membership (*Verify) Verify` (0 of 3.11s (13.71%))
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) DeserializeIdentity` (0 of 2.31s (14.59%))
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) DeserializeIdentityInternal` (0 of 3.29s (14.50%))
 - `crypto/x509 (*Certificate) ParseCertificate` (0 of 2.78s (12.35%))
 - `crypto/x509 (*Certificate) ParseCertificate` (0 of 2.12s (9.34%))
 - `encoding/asn1 (*Unmarshal) Unmarshal` (0 of 2.91s (12.83%))
 - `encoding/asn1 (*UnmarshalWithParams) UnmarshalWithParams` (0 of 2.91s (12.83%))
 - `encoding/asn1 (*ParseSequenceOf) ParseSequenceOf` (0 of 1.88s (8.29%))
 - `reflect (*MakeSlice) MakeSlice` (0 of 0.66s (2.64%))
 - `runtime (*makeobject) makeobject` (0 of 1.51s (6.65%))
 - `runtime (*mallocgc) mallocgc` (0 of 4.16s (18.33%))
- Final Verification and Cleanup (Grey Nodes):**
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) Validate` (0 of 1.02s (4.50%))
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) SerializeCert` (0 of 0.75s (3.31%))
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) VerifyECDSA` (0 of 0.7s (1.69%))
 - `github.com/hyperledger/fabric-sdk-go/internal/github.com/hyperledger/fabric/msp (*msp.ManagerImpl) getUniqueValidatorChain` (0 of 0.62s (1.69%))
 - `crypto/x509 (*Certificate) CheckSignature` (0 of 0.68s (3.00%))
 - `crypto/ecdsa (*Verify) Verify` (0 of 0.74s (3.26%))
 - `crypto/elliptic (*p256Curve) CombineMult` (0 of 0.52s (2.29%))
 - `crypto/elliptic (*p256Curve) ScalarMult` (0 of 0.33s (1.45%))
 - `p256 (*MultInternal) MultInternal` (0 of 0.16s (0.71%))

Execution Flow and Timing:

- The process starts with the initial client channel creation, which takes 16.07s.
- It then proceeds to the intermediate processing stage, which takes 16.04s.
- The final verification and cleanup stage takes 2.01s.
- The total execution time for the entire process is 16.07s.
- The graph shows a complex flow of data and control between various components, including channel membership, internal channel management, certificate parsing, and final object cleanup.

runtime
mach_semaphore_signal
15.11s (66.59%)