

Guidance:

1. Hot
2. Cold
3. Cold
4. Hot
5. Cold
6. Cold
- ...

High-Level API

Thread 1

```
int foo () {  
    ...  
    sicm_malloc (sz, 1);  
    ...  
}
```

Thread 2

```
int foo () {  
    ...  
    sicm_malloc (sz, 1);  
    ...  
}
```

Thread 3

```
void bar () {  
    ...  
    sicm_malloc (sz, 5);  
    ...  
}
```

...

Thread n

```
float baz () {  
    ...  
    sicm_malloc (sz, 6);  
    ...  
}
```

A1

Thread1 – Tier1

A3

Thread2 – Tier1

A5

Thread3 – Tier1

...

$A(2n - 1)$

Thread n – Tier1

A2

Thread1 – Tier2

A4

Thread2 – Tier2

A6

Thread3 – Tier2

$A(2n)$

Thread n – Tier2

Low-Level Management