ReuseDistance 0.01

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Class Index

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Chapter 3

Class Documentation

3.1 ReuseDistance Class Reference

#include <ReuseDistance.hpp>

Public Member Functions

- ReuseDistance (uint64_t w)
- ReuseDistance (ReuseDistance &h)
- ∼ReuseDistance ()
- void Print ()
- void Print (std::ostream &f)
- void Process (ReuseEntry &addr)
- void Process (ReuseEntry *addrs, uint64_t count)
- void Process (std::vector < ReuseEntry > rs)
- void Process (std::vector< ReuseEntry * > addrs)
- uint64_t GetDistance (ReuseEntry &addr)
- ReuseStats * GetStats (uint64_t id)
- uint64_t GetWindowSize ()
- void IncrementSequence (uint64_t count)
- void GetIndices (std::vector< uint64_t > &ids)
- void GetActiveAddresses (std::vector< uint64_t > &addrs)
- uint64_t GetSequenceValue (uint64_t addr)
- uint64_t GetCurrentSequence ()

3.1.1 Detailed Description

Definition at line 144 of file ReuseDistance.hpp.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 ReuseDistance::ReuseDistance (uint64 t w)

Contructs a ReuseDistance object.

Parameters

w The maximum size of the window of addresses that will be examined. Use 0 for no window, but we aware that this will use a potentially unlimited amount of memory that will be proportional to the number of unique addresses processed by this object.

Definition at line 5 of file ReuseDistance.cpp.

3.1.2.2 ReuseDistance::ReuseDistance (ReuseDistance & h)

Contructs a ReuseDistance object. Copy constructor.

Parameters

h A reference to another ReuseDistance object. All state from this parameter is copied to the new ReuseDistance object, including window size, current addresses in that window and all tracked statistics.

Definition at line 11 of file ReuseDistance.cpp.

3.1.2.3 ReuseDistance::~ReuseDistance() [inline]

Destroys a ReuseDistance object.

Definition at line 190 of file ReuseDistance.hpp.

3.1.3 Member Function Documentation

3.1.3.1 void ReuseDistance::GetActiveAddresses (std::vector< uint64_t > & addrs)

Get a std::vector containing all of the addresses currently in this ReuseDistance object's active window.

Parameters

addrs A std::vector which will contain the addresses. It is an error to pass this vector non-empty (that is addrs.size() == 0 is enforced).

Returns

none

Definition at line 47 of file ReuseDistance.cpp.

3.1.3.2 uint64_t ReuseDistance::GetCurrentSequence () [inline]

Get this ReuseDistance object's current sequence.

Returns

This ReuseDistance object's current sequence.

Definition at line 322 of file ReuseDistance.hpp.

3.1.3.3 uint64_t ReuseDistance::GetDistance (ReuseEntry & addr)

Get a reuse distance for a memory address without tracking statistics for it.

Parameters

addr The memory address to analyze.

Returns

The reuse distance for the memory address given by addr.

3.1.3.4 void ReuseDistance::GetIndices (std::vector< uint64_t > & ids)

Get a std::vector containing all of the unique indices processed by this ReuseDistance object.

Parameters

ids A std::vector which will contain the ids. It is an error to pass this vector non-empty (that is addrs.size() == 0 is enforced).

Returns

none

Definition at line 39 of file ReuseDistance.cpp.

3.1.3.5 uint64_t ReuseDistance::GetSequenceValue (uint64_t addr)

Get the sequence value for an address currently in this ReuseDistance object's active window.

Parameters

addr An address. Addresses not in this object's active window will generate a return value of 0.

Returns

The sequence value for addr, or 0 if addr is not in this object's active window.

Definition at line 55 of file ReuseDistance.cpp.

3.1.3.6 ReuseStats * ReuseDistance::GetStats (uint64_t id) [inline]

Get the ReuseStats object associated with some unique id.

Parameters

id The unique id.

Returns

The ReuseStats object associated with parameter id.

Definition at line 145 of file ReuseDistance.cpp.

3.1.3.7 uint64_t ReuseDistance::GetWindowSize() [inline]

Get the size of the window for this ReuseDistance object.

Returns

The size of the window for this ReuseDistance object.

Definition at line 270 of file ReuseDistance.hpp.

3.1.3.8 void ReuseDistance::IncrementSequence (uint64_t count) [inline]

Increment the internal sequence count for this ReuseDistance object. This has the effect of fast forwarding in the memory address stream. Possibly useful if you are using sampling on your memory address stream.

Parameters

count The amount of the increment.

Returns

none

Definition at line 281 of file ReuseDistance.hpp.

3.1.3.9 void ReuseDistance::Print (std::ostream & f)

Print statistics for this ReuseDistance to an output stream. See ReuseStats::Print for information about output format.

Parameters

f The output stream to print results to.

Returns

none

3.1.3.10 void ReuseDistance::Print ()

Print statistics for this ReuseDistance to std::cout. See ReuseStats::Print for information about output format.

Returns

none

Definition at line 66 of file ReuseDistance.cpp.

3.1.3.11 void ReuseDistance::Process (std::vector < ReuseEntry * > addrs)

Process multiple memory addresses.

Parameters

addrs A std::vector of memory addresses to process.

Returns

none

3.1.3.12 void ReuseDistance::Process (std::vector < ReuseEntry > rs)

Process multiple memory addresses.

Parameters

addrs A std::vector of memory addresses to process.

Returns

none

3.1.3.13 void ReuseDistance::Process (ReuseEntry * addrs, uint64_t count)

Process multiple memory addresses.

Parameters

addrs An array of structures describing memory addresses to process. *count* The number of elements in addrs.

Returns

none

Definition at line 104 of file ReuseDistance.cpp.

3.1.3.14 void ReuseDistance::Process (ReuseEntry & addr) [inline]

Process a single memory address.

Parameters

addr The structure describing the memory address to process.

Returns

none

Definition at line 124 of file ReuseDistance.cpp.

The documentation for this class was generated from the following files:

- ReuseDistance.hpp
- ReuseDistance.cpp

3.2 ReuseEntry Struct Reference

#include <ReuseDistance.hpp>

Public Attributes

- uint64 t id
- uint64_t address

3.2.1 Detailed Description

ReuseEntry is used to pass memory addresses into a ReuseDistance.

id The unique id of the entity which generated the memory address. Statistics are tracked seperately for each unique id. address A memory address.

Definition at line 45 of file ReuseDistance.hpp.

3.2.2 Member Data Documentation

3.2.2.1 uint64_t ReuseEntry::address

Definition at line 47 of file ReuseDistance.hpp.

3.2.2.2 uint64_t ReuseEntry::id

Definition at line 46 of file ReuseDistance.hpp.

The documentation for this struct was generated from the following file:

• ReuseDistance.hpp

3.3 ReuseStats Class Reference

#include <ReuseDistance.hpp>

Public Member Functions

- ReuseStats ()
- ∼ReuseStats ()
- void Update (uint64_t dist)
- void Print (std::ostream &f, uint64_t uniqueid)
- void GetSortedDistances (std::vector< uint64_t > &dists)
- uint64_t GetMaximumDistance ()
- uint64_t CountDistance (uint64_t dist)
- uint64_t CountDistance (uint64_t low, uint64_t high)
- uint64_t GetAccessCount ()

3.3.1 Detailed Description

ReuseStats holds a count of the number of times each reuse distance is observed.

Definition at line 55 of file ReuseDistance.hpp.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 ReuseStats::ReuseStats() [inline]

Contructs a ReuseStats object. Default constructor.

Definition at line 65 of file ReuseDistance.hpp.

3.3.2.2 ReuseStats::~ReuseStats() [inline]

Destroys a ReuseStats object.

Definition at line 70 of file ReuseDistance.hpp.

3.3.3 Member Function Documentation

3.3.3.1 uint64_t ReuseStats::CountDistance (uint64_t low, uint64_t high)

Count the number of times any distance within some range [low, high) has been observed.

Parameters

low The lower bound (inclusive) of the distance range to count.

high The upper bound (exclusive) of the distance range to count.

Returns

The number of times any distance within the range [low, high) has been observed.

Definition at line 187 of file ReuseDistance.cpp.

3.3.3.2 uint64_t ReuseStats::CountDistance (uint64_t dist)

Count the number of times some distance has been observed.

Parameters

dist The distance to count.

Returns

The number of times d has been observed.

Definition at line 180 of file ReuseDistance.cpp.

3.3.3.3 uint64 t ReuseStats::GetAccessCount() [inline]

Count the total number of distances observed.

Returns

The total number of distances observed.

Definition at line 157 of file ReuseDistance.cpp.

3.3.3.4 uint64_t ReuseStats::GetMaximumDistance ()

Get the maximum distance observed.

Returns

The maximum distance observed.

Definition at line 161 of file ReuseDistance.cpp.

3.3.3.5 void ReuseStats::GetSortedDistances (std::vector< uint64_t > & dists)

Get a std::vector containing the distances observed, sorted in ascending order. The first line of the output is four tokens which are (1) the string literal REUSESTATS, (2) the unique id, (3) the total number of accesses for that unique id and (4) the number of accesses from that id which were not found within the active address window either because they were evicted or because of cold misses. Each additional line of output contains two tokens, which give (1) a reuse distance and (2) the number of times that reuse distance was observed.

Parameters

dists The vector which will hold the sorted distance values. It is an error for dists to be passed in non-empty (that is, dists.size() == 0 is enforced).

Returns

none

3.3.3.6 void ReuseStats::Print (std::ostream & f, uint64_t uniqueid)

Print a summary of the current reuse distances and counts.

Parameters

```
f The stream to receive the output.
uniqueid An identifier for this ReuseStats object.
scale A vector holding the boundaries of bins used to aggregate the reuse distances.
```

Returns

none

3.3.3.7 void ReuseStats::Update (uint64_t dist) [inline]

Increment the counter for some distance.

Parameters

dist A reuse distance observed in the memory address stream.

Returns

none

Definition at line 172 of file ReuseDistance.cpp.

The documentation for this class was generated from the following files:

- ReuseDistance.hpp
- ReuseDistance.cpp

Chapter 4

File Documentation

4.1 ReuseDistance.cpp File Reference

```
#include <ReuseDistance.hpp>
#include <assert.h>
#include <stdlib.h>
#include <algorithm>
#include <iostream>
#include <ostream>
#include <set>
#include <vector>
#include <map>
```

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4.2 ReuseDistance.hpp File Reference

```
#include <assert.h>
#include <stdlib.h>
#include <algorithm>
#include <iostream>
#include <ostream>
#include <set>
#include <vector>
#include <map>
```

Classes

- struct ReuseEntry
- class ReuseStats
- class ReuseDistance

Defines

```
#define reuse_map_type std::map#define TAB "\t"#define ENDL "\n"
```

4.2.1 Detailed Description

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Version

0.01

4.2.2 LICENSE

4.2.3 DESCRIPTION

The ReuseDistanceHandler class allows for calculation and statistic tracking for finding memory reuse distances given a stream of memory addresses and ids.

Definition in file ReuseDistance.hpp.

4.2.4 Define Documentation

4.2.4.1 #define ENDL "\n"

Definition at line 34 of file ReuseDistance.hpp.

4.2.4.2 #define reuse_map_type std::map

Definition at line 30 of file ReuseDistance.hpp.

4.2.4.3 #define TAB "\t"

Definition at line 33 of file ReuseDistance.hpp.

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