

Ape

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Chapter 1

Main Page

Welcome

Ape (Another PC Emulator) is an experimental IBM PC compatible emulator written in C++17.

Classes worth reading up on

Machine [Core::Machine](#) [Core::HW::FloppyDrive](#) CPU [Core::CPU::CPU](#) [Core::CPU::Instruction](#)

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

/home/max/sources/ape/Source/ApeQt/ MainWindow.h	??
/home/max/sources/ape/Source/ApeQt/ QueueOnObject.h	??
/home/max/sources/ape/Source/ApeQt/ TTYWidget.h	??
/home/max/sources/ape/Source/Common/ File.h	??
/home/max/sources/ape/Source/Common/ Logger.h	21
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/home/max/sources/ape/Source/Common/ Types.h	21
/home/max/sources/ape/Source/Core/ Machine.h	23
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/home/max/sources/ape/Source/Core/ TTY.h	??
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/home/max/sources/ape/Source/Core/CPU/ Exception.h	22
/home/max/sources/ape/Source/Core/CPU/ Flags.h	??
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Chapter 5

Class Documentation

5.1 Core::CPU::CPU Class Reference

Representation of the Central Processing Unit.

```
#include <CPU.h>
```

Public Member Functions

- **CPU** ([Machine](#) *machine)
- void [Tick](#) ()
Execute one [CPU](#) cycle.
- void [Start](#) ()
Execute instructions until shutdown is requested.

Public Attributes

- [u16](#) & [AX](#) = AX_struct.AX
AX (Accumulator)
- [u8](#) & [AH](#) = AX_struct.b8.AH
AH (High)
- [u8](#) & [AL](#) = AX_struct.b8.AL
AL (Low)
- [u16](#) & [BX](#) = BX_struct.BX
BX.
- [u8](#) & [BH](#) = BX_struct.b8.BH
BH (High)
- [u8](#) & [BL](#) = BX_struct.b8.BL
BL (Low)
- [u16](#) & [CX](#) = CX_struct.CX
CX.
- [u8](#) & [CH](#) = CX_struct.b8.CH
CH (High)
- [u8](#) & [CL](#) = CX_struct.b8.CL

- CL (Low)*
 - `u16 & DX = DX_struct.DX`
 - DX.*
 - `u8 & DH = DX_struct.b8.DH`
 - DH (High)*
 - `u8 & DL = DX_struct.b8.DL`
 - DL (Low)*
 - `u16 CS = 0`
 - Code Segment.*
 - `u16 DS = 0`
 - Data Segment.*
 - `u16 ES = 0`
 - Extra(?) Segment.*
 - `u16 SS = 0`
 - Stack Segment.*
 - `u16 IP = 0`
 - Instruction Pointer.*
 - `u16 BP = 0`
 - Base Pointer.*
 - `u16 SP = 0`
 - Stack Pointer.*
 - `u16 SI = 0`
 - Source Index.*
 - `u16 DI = 0`
 - Destination Index.*
 - `bool AF = false`
 - Adjust Flag.*
 - `bool CF = false`
 - Carry Flag.*
 - `bool IF = true`
 - Interrupt Flag.*
 - `bool DF = false`
 - Direction Flag.*
 - `bool OF = false`
 - Overflow Flag.*
 - `bool PF = false`
 - Parity Flag.*
 - `bool SF = false`
 - Sign Flag.*
 - `bool ZF = false`
 - Zero Flag.*
 - `bool simulate_msdos = false`
 - Simulate MS-DOS (Handle its interrupts)*
 - `std::atomic< bool > running = false`
 - Set whether the CPU is running.*

5.1.1 Detailed Description

Representation of the Central Processing Unit.

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

- [/home/max/sources/ape/Source/Core/CPU/CPU.h](#)
- [/home/max/sources/ape/Source/Core/BIOS/Interrupt.cpp](#)
- [/home/max/sources/ape/Source/Core/CPU/CPU.cpp](#)
- [/home/max/sources/ape/Source/Core/CPU/Flags.cpp](#)
- [/home/max/sources/ape/Source/Core/CPU/Flags.h](#)

5.2 Core::HW::FloppyDrive Class Reference

Representation of a floppy drive.

```
#include <FloppyDrive.h>
```

Public Member Functions

- bool [Insert](#) (const std::string &path)
Insert an image into the drive.
- bool [HasDisc](#) () const
Check if a disc is present.
- [u32 GetSize](#) () const
Get the size of the inserted disc.
- bool [IsBootable](#) ()
Check if the provided image is bootable.
- [u32 GetSectorSize](#) () const
Get size of a floppy.
- [u32 GetSectorsPerTrack](#) () const
Get sectors per track.
- [u32 GetHeadCount](#) () const
Get head count.
- void [Eject](#) ()
Eject the image.
- bool [Read](#) ([u32](#) offset, [u32](#) size, [u8](#) *buffer)
Read data from the image.
- bool [Read](#) ([u8](#) cylinder, [u8](#) head, [u8](#) sector, [u8](#) count, [u8](#) *buffer)

5.2.1 Detailed Description

Representation of a floppy drive.

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

- [/home/max/sources/ape/Source/Core/HW/FloppyDrive.h](#)
- [/home/max/sources/ape/Source/Core/HW/FloppyDrive.cpp](#)

5.3 Core::CPU::Instruction Class Reference

High-Level representation of a instruction.

```
#include <Instruction.h>
```

Classes

- class [Parameter](#)
High-Level representation of a instruction parameter.

Public Types

- enum [SegmentPrefix](#) : u8
Enum of all possible segment prefixes.
- enum [Type](#) : u8 { **PRIVATE** }
Determines the type of the instruction.

Public Member Functions

- [Instruction](#) (u8 opcode, u32 offset=0)
Turns the provided opcode into an [Instruction](#).
- [Instruction](#) (const [Instruction](#) &ins, u8 opcode, u32 offset=0)
One but with prefixes.
- [Type](#) [GetType](#) () const
Get the Type associated with this instruction.
- [SegmentPrefix](#) [GetPrefix](#) () const
Get the SegmentPrefix associated with this instruction.
- bool [IsResolved](#) ()
Checks whether this [Instruction](#) needs further resolving.
- bool [IsPrefix](#) () const
Checks if this instruction is actually a prefix.
- bool [Resolve](#) (u8 mod, std::vector< u8 > data)
Resolves the [Instruction](#).
- u8 [GetLength](#) (u8 mod)
Get the length of the instruction provided.
- std::string [ToString](#) () const
Get a disassembly for the [Instruction](#) provided.
- const std::vector< [Parameter](#) > & [GetParameters](#) () const
Get a vector of parameters.
- [Parameter](#) & [GetParameter](#) (size_t index)
Get a specific vector.
- void [AddParameter](#) ([Parameter](#) parameter)
Add a new parameter.

5.3.1 Detailed Description

High-Level representation of a instruction.

5.3.2 Member Enumeration Documentation

5.3.2.1 SegmentPrefix

```
enum Core::CPU::Instruction::SegmentPrefix : u8 [strong]
```

Enum of all possible segment prefixes.

These prefixes override the default segment of an instruction.

5.3.3 Constructor & Destructor Documentation

5.3.3.1 Instruction()

```
Core::CPU::Instruction::Instruction (
    u8 opcode,
    u32 offset = 0 ) [explicit]
```

Turns the provided opcode into an [Instruction](#).

Parameters

<i>opcode</i>	Opcode to be decoded
---------------	----------------------

5.3.4 Member Function Documentation

5.3.4.1 GetLength()

```
u8 Instruction::GetLength (
    u8 mod )
```

Get the length of the instruction provided.

Returns

Length of the instruction in bytes

5.3.4.2 Resolve()

```
bool Instruction::Resolve (
    u8 mod,
    std::vector< u8 > data )
```

Resolves the [Instruction](#).

Parameters

<i>mod</i>	Modifier byte. The byte after the opcode regardless if it is used as such
<i>data</i>	needs to have as many bytes as specified in GetInstructionLength()

Returns

Returns `false` if there was an error during resolving.

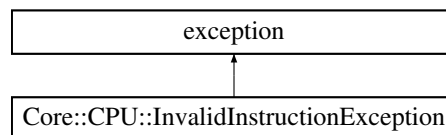
The documentation for this class was generated from the following files:

- [/home/max/sources/ape/Source/Core/CPU/Instruction.h](#)
- [/home/max/sources/ape/Source/Core/CPU/Decoder.cpp](#)
- [/home/max/sources/ape/Source/Core/CPU/Instruction.cpp](#)

5.4 Core::CPU::InvalidInstructionException Class Reference

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::InvalidInstructionException:



5.4.1 Detailed Description

Thrown when the [CPU](#) hits an instruction that couldn't be resolved / is invalid

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

- [/home/max/sources/ape/Source/Core/CPU/Exception.h](#)

5.5 Core::Machine Class Reference

Representation of a PC.

```
#include <Machine.h>
```

Public Member Functions

- [HW::FloppyDrive](#) & [GetFloppyDrive](#) ()
Get this machines [HW::FloppyDrive](#).
- [Memory](#) & [GetMemory](#) ()
Get this machines [Memory](#).
- bool [BootFloppy](#) ()
Boot the machine from the floppy drive.
- void [Shutdown](#) ()
Shutdown the machine.
- bool [BootCOM](#) (const std::string &file, const std::string &¶meters="")
Directly execute a COM file.

5.5.1 Detailed Description

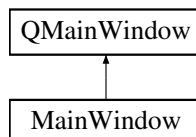
Representation of a PC.

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

- /home/max/sources/ape/Source/Core/[Machine.h](#)
- /home/max/sources/ape/Source/Core/[Machine.cpp](#)

5.6 MainWindow Class Reference

Inheritance diagram for MainWindow:



Public Member Functions

- **MainWindow** (const std::string &&path="")

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

- /home/max/sources/ape/Source/ApeQt/[MainWindow.h](#)
- /home/max/sources/ape/Source/ApeQt/[MainWindow.cpp](#)

5.7 Core::Memory Class Reference

Wrapper around emulated RAM.

```
#include <Memory.h>
```

Public Member Functions

- **Memory** (u32 size)
*Create **Memory** of the specified size (in bytes)*
- std::vector< u8 > & **Get** ()
Get the contents of RAM.
- template<typename T >
T & **Get** (u16 segment, u16 offset)
- template<typename T >
T * **GetPtr** (u16 segment, u16 offset)

Static Public Member Functions

- static u32 **VirtToPhys** (u16 segment, u16 offset)
Converts a virtual address to an absolute one.

5.7.1 Detailed Description

Wrapper around emulated RAM.

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

- /home/max/sources/ape/Source/Core/**Memory.h**
- /home/max/sources/ape/Source/Core/**Memory.cpp**

5.8 Core::CPU::Instruction::Parameter Class Reference

High-Level representation of a instruction parameter.

```
#include <Instruction.h>
```

Public Types

- enum **Type** : u8 { **PRIVATE** }
Enum to determine the types of parameters.

Public Member Functions

- **Parameter** (**Parameter::Type** type)
*Create a parameter with the **Instruction::Parameter::Type** provided.*
- void **Resolve** (u32 data)
Provide the parameter with its missing data.
- void **Resolve** (**Parameter::Type** type, u32 data=0)
Change the type of the parameter and provide missing data (if any)
- **Type** **GetType** () const
Get the parameters type.
- template<typename T >
T **GetData** () const
Get the data associated with this parameter.
- bool **IsResolved** () const
Returns `true` if this parameter is resolved.
- bool **IsWord** () const
Returns `true` if this parameter points to or is a word.
- std::string **ToString** (**SegmentPrefix** prefix=**SegmentPrefix::None**, u32 offset=0) const
Get a human readable form of this parameter.

5.8.1 Detailed Description

High-Level representation of a instruction parameter.

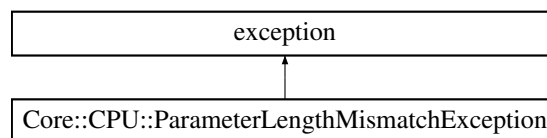
The documentation for this class was generated from the following files:

- [/home/max/sources/ape/Source/Core/CPU/Instruction.h](#)
- [/home/max/sources/ape/Source/Core/CPU/Instruction.cpp](#)

5.9 Core::CPU::ParameterLengthMismatchException Class Reference

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::ParameterLengthMismatchException:



5.9.1 Detailed Description

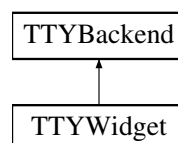
Thrown when a `word` and `byte` parameter are used together when they shouldn't be

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

- [/home/max/sources/ape/Source/Core/CPU/Exception.h](#)

5.10 TTYBackend Class Reference

Inheritance diagram for TTYBackend:



Public Member Functions

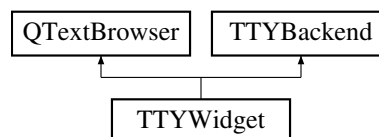
- virtual void **Write** (const std::string &string)=0
- virtual void **Write** (const char c)=0
- virtual void **Scroll** (const u8 lines, const u8 colors)=0
- virtual void **MoveCursor** (const u32, const u32)=0
- virtual u8 **GetCursorRow** () const =0
- virtual void **SetCursorRow** (u8 row)=0
- virtual u8 **GetCursorColumn** () const =0
- virtual void **SetCursorColumn** (u8 column)=0
- virtual void **Clear** ()=0
- virtual char **Read** ()=0
- virtual bool **IsCharAvailable** () const =0

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

- /home/max/sources/ape/Source/Core/TTYBackend.h

5.11 TTYWidget Class Reference

Inheritance diagram for TTYWidget:



Public Member Functions

- void **Write** (const std::string &string) override
- void **Write** (const char c) override
- void **Scroll** (const u8 lines, const u8 colors) override
- void **MoveCursor** (const u32 x, const u32 y) override
- u8 **GetCursorRow** () const override
- void **SetCursorRow** (u8 row) override
- u8 **GetCursorColumn** () const override
- void **SetCursorColumn** (u8 column) override
- void **Clear** () override
- char **Read** () override
- bool **IsCharAvailable** () const override
- void **keyPressEvent** (QKeyEvent *event)
- void **keyReleaseEvent** (QKeyEvent *event)

Public Attributes

- u8 **m_row** = 0
- u8 **m_column** = 0
- std::map< char, bool > **m_pressed_keys**

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

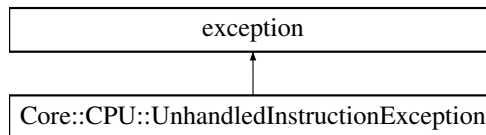
- /home/max/sources/ape/Source/ApeQt/TTYWidget.h
- /home/max/sources/ape/Source/ApeQt/TTYWidget.cpp

5.12 Core::CPU::UnhandledInstructionException Class Reference

Thrown when the [CPU](#) hits an unimplemented [Instruction::Type](#).

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::UnhandledInstructionException:



5.12.1 Detailed Description

Thrown when the [CPU](#) hits an unimplemented [Instruction::Type](#).

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

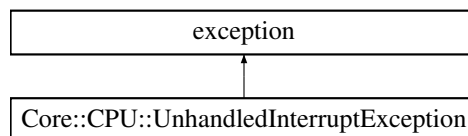
- [/home/max/sources/ape/Source/Core/CPU/Exception.h](#)

5.13 Core::CPU::UnhandledInterruptException Class Reference

Thrown when a interrupt is neither handled by software nor hardware.

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::UnhandledInterruptException:



5.13.1 Detailed Description

Thrown when a interrupt is neither handled by software nor hardware.

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

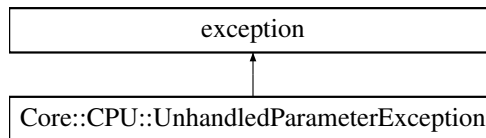
- [/home/max/sources/ape/Source/Core/CPU/Exception.h](#)

5.14 Core::CPU::UnhandledParameterException Class Reference

Thrown when the [CPU](#) hits an unimplemented [Instruction::Parameter::Type](#).

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::UnhandledParameterException:



5.14.1 Detailed Description

Thrown when the [CPU](#) hits an unimplemented [Instruction::Parameter::Type](#).

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

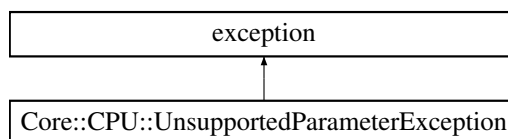
- </home/max/sources/ape/Source/Core/CPU/Exception.h>

5.15 Core::CPU::UnsupportedParameterException Class Reference

Thrown when a instruction doesn't support the parameter type provided.

```
#include <Exception.h>
```

Inheritance diagram for Core::CPU::UnsupportedParameterException:



5.15.1 Detailed Description

Thrown when a instruction doesn't support the parameter type provided.

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

- </home/max/sources/ape/Source/Core/CPU/Exception.h>

Chapter 6

File Documentation

6.1 /home/max/sources/ape/Source/Common/Logger.h File Reference

```
#include <string>
```

Macros

- `#define LOG(msg) __MSG("LOG", __FILE__, __LINE__, msg)`
Log a message.
- `#define WARN(msg) __MSG("WARNING", __FILE__, __LINE__, msg)`
Log a warning.
- `#define ERROR(msg) __MSG("ERROR", __FILE__, __LINE__, msg)`
Log an error.

6.2 /home/max/sources/ape/Source/Common/Types.h File Reference

```
#include <stdint>
```

Typedefs

- using `u8` = `uint8_t`
A 8-bit unsigned integer (unsigned byte)
- using `i8` = `int8_t`
A 8-bit signed integer (signed byte)
- using `u16` = `uint16_t`
A 16-bit unsigned integer (unsigned word)
- using `i16` = `int16_t`
A 16-bit signed integer (signed word)
- using `u32` = `uint32_t`
A 32-bit unsigned integer.
- using `i32` = `int32_t`
A 32-bit signed integer.
- using `u64` = `uint64_t`
A 64-bit unsigned integer.
- using `i64` = `int64_t`
A 64-bit signed integer.

6.3 /home/max/sources/ape/Source/Core/CPU/CPU.h File Reference

```
#include <atomic>
#include "Common/Logger.h"
#include "Common/String.h"
#include "Common/Types.h"
#include "Core/CPU/Exception.h"
#include "Core/CPU/Instruction.h"
#include "Core/Memory.h"
```

Classes

- class [Core::CPU::CPU](#)
Representation of the Central Processing Unit.

6.4 /home/max/sources/ape/Source/Core/CPU/Exception.h File Reference

```
#include <exception>
```

Classes

- class [Core::CPU::InvalidInstructionException](#)
- class [Core::CPU::UnhandledInstructionException](#)
Thrown when the [CPU](#) hits an unimplemented [Instruction::Type](#).
- class [Core::CPU::UnhandledParameterException](#)
Thrown when the [CPU](#) hits an unimplemented [Instruction::Parameter::Type](#).
- class [Core::CPU::ParameterLengthMismatchException](#)
- class [Core::CPU::UnsupportedParameterException](#)
Thrown when a instruction doesn't support the parameter type provided.
- class [Core::CPU::UnhandledInterruptException](#)
Thrown when a interrupt is neither handled by software nor hardware.

6.5 /home/max/sources/ape/Source/Core/CPU/Instruction.h File Reference

```
#include <map>
#include <string>
#include <vector>
#include "Common/Types.h"
```

Classes

- class [Core::CPU::Instruction](#)
High-Level representation of a instruction.
- class [Core::CPU::Instruction::Parameter](#)
High-Level representation of a instruction parameter.

Functions

- `std::string Core::CPU::TypeToString` (const Instruction::Type &type)
Get the corresponding nmoroic for the Type provided.
- `std::string Core::CPU::ParameterTypeToString` (const Instruction::Parameter::Type &type, Instruction::SegmentPrefix prefix=Instruction::SegmentPrefix::None)
Get a human readable form of the Parameter::Type provided.
- `bool Core::CPU::ParameterNeedsResolving` (const Instruction::Parameter::Type ¶meter)
Checks whether this Parameter::Type needs resolving.

6.6 /home/max/sources/ape/Source/Core/HW/FloppyDrive.h File Reference

```
#include <fstream>
#include <memory>
#include <string>
#include <vector>
#include "Common/Types.h"
```

Classes

- class `Core::HW::FloppyDrive`
Representation of a floppy drive.

6.7 /home/max/sources/ape/Source/Core/Machine.h File Reference

```
#include "Core/CPU/CPU.h"
#include "Core/HW/FloppyDrive.h"
#include "Core/Memory.h"
#include <vector>
```

Classes

- class `Core::Machine`
Representation of a PC.

6.8 /home/max/sources/ape/Source/Core/Memory.h File Reference

```
#include <vector>
#include "Common/Types.h"
```

Classes

- class `Core::Memory`
Wrapper around emulated RAM.

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