Network Scanner

制作者 Doxygen 1.13.2

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Network Scanner 项目文档

1.1 简介

Network Scanner是一个用于网络扫描和拓扑分析的工具。 它可以帮助您发现网络中的设备,分析设备特性,并生成网络拓扑图。

1.2 主要功能

- 网络设备扫描
- 设备分析
- 网络拓扑可视化
- 扫描历史记录

1.3 项目架构

该项目主要包含以下模块:

- 主窗口(MainWindow): 用户界面
- 网络扫描器(NetworkScanner): 负责扫描网络设备
- 网络拓扑(NetworkTopology): 生成和展示网络拓扑图
- 设备分析器(DeviceAnalyzer): 分析设备特性
- 扫描历史(ScanHistory): 管理扫描历史记录

1.4 构建说明

该项目使用CMake构建系统,依赖于Qt6库。构建步骤:

- 1. 确保已安装CMake和Qt6
- 2. 创建构建目录: mkdir build && cd build
- 3. 配置项目: cmake ..
- 4. 构建项目: make

网络扫描器

一个基于Qt的综合性网络扫描工具,用于扫描局域网中的计算机,以可视化方式展示网络拓扑结构,并提供详细的设备分析。

2.1 主要功能

- 自动检测本地网络接口
- 扫描局域网内所有可达的计算机
- 显示主机IP地址、主机名、MAC地址和可连接状态
- 识别并显示设备的MAC地址厂商信息
- 直观的网络拓扑图可视化,显示网络设备之间的关系
- 智能设备类型识别 (路由器、服务器、PC、移动设备等)
- 设备统计分析和图表展示(设备类型分布、厂商分布)
- 开放端口分布统计和图表展示
- 安全风险分析和安全报告生成
- 扫描历史记录和会话比较功能
- 支持明暗两种主题模式切换
- 实时显示扫描进度和结果
- 支持多线程并行扫描, 提高扫描速度
- 可配置自定义端口扫描列表
- 可设置扫描超时时间
- · 可指定自定义IP地址范围
- 可保存和导出扫描结果
- 可查看主机的详细信息和开放端口
- 支持设置保存和加载
- 支持计划任务扫描
- 过滤和搜索扫描结果

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2.2 最新改进

- **扫描性能优化**: 减少每个子网的扫描IP数量, 更快完成扫描
- **超时控制**:添加全局扫描超时机制,防止扫描过程卡住
- **稳定性提升**: 改进了错误处理, 提高了应用在不同网络环境下的稳定性
- **资源管理**: 优化线程和内存使用,减少资源占用
- **代码文档**:添加了完整的Doxygen风格注释,便于维护和开发
- **UI响应性**: 改进了UI反馈机制,提供更好的用户体验

2.3 构建要求

- Qt 6.0或更高版本(也兼容Qt 5)
- C++17标准支持
- CMake 3.16或更高版本
- · 需要包含QtCharts模块(Qt5需要单独安装,Qt6已包含)

2.4 构建步骤

- 1. 确保已安装Qt和CMake
- 2. 克隆或下载此项目
- 3. 创建构建目录: mkdir build && cd build
- 4. 运行CMake生成构建文件: cmake ...
- 5. 编译项目: make 或 cmake --build .
- 6. 运行程序: ./NetScanner

cd /Users/lifulin/Desktop/NetworkScanner
rm -rf build
mkdir build
cd build
cmake ..
make -j8
./NetScanner

2.5 详细使用指南

2.5.1 基本扫描

- 1. 启动应用程序
- 2. 可选: 在"扫描设置"标签页配置扫描参数
 - 可以设置自定义端口列表,格式为逗号分隔的端口号,例如: 21,22,23,80,443
 - 可以设置连接超时时间(100-10000毫秒之间), 默认为500毫秒
 - 可以设置自定义IP地址范围,例如从192.168.1.1到192.168.1.254
- 3. 返回"扫描结果"标签页,点击"开始扫描"按钮
- 4. 等待扫描完成(进度条显示当前扫描进度)
- 5. 查看结果表格中显示的主机信息,包括IP地址、主机名、MAC地址和厂商信息
- 6. 双击任一主机查看其详细信息,包括所有开放端口

2.5 详细使用指南 5

2.5.2 网络拓扑

- 1. 完成扫描后, 切换到"网络拓扑"标签页
- 2. 查看自动生成的网络拓扑图:
 - 中心节点通常是网关或路由器(红色图标)
 - 服务器显示为蓝色图标
 - 个人电脑显示为绿色图标
 - 移动设备显示为橙色图标
 - 打印机显示为紫色图标
 - 智能设备显示为青色图标
- 3. 使用"自动布局"按钮重新排列设备位置
- 4. 使用"+"和"-"按钮放大或缩小视图
- 5. 使用"重置视图"按钮恢复默认视图
- 6. 鼠标悬停在设备节点上可查看设备详细信息
- 7. 点击设备节点可选中该设备,并自动在"扫描结果"中突出显示
- 8. 通过"保存网络拓扑图"功能可导出当前拓扑图为PNG或JPG图像文件

2.5.3 设备分析

- 1. 完成扫描后, 切换到"统计分析"标签页
- 2. 查看三种图表:
 - **设备类型分布**: 饼图显示不同类型设备(路由器、服务器、PC、移动设备等)的数量和 百分比
 - **厂商分布**: 饼图显示不同厂商设备的数量和百分比,展示前5大厂商,其余归为"其他"
 - **端口分布**: 柱状图显示常见端口(如21、22、80、443等)的开放情况
- 3. 点击"生成安全报告"按钮获取网络安全分析和建议、报告将包含:
 - 设备数量统计
 - 高风险开放端口清单(如21/FTP、22/SSH、23/Telnet等)
 - 每台设备的安全风险评估
 - 具体的安全加固建议

2.5.4 扫描历史

- 1. 每次完成扫描后, 结果会自动保存到扫描历史
- 2. 在"扫描历史"标签页查看历史记录:
 - 从下拉列表中选择历史会话查看具体结果
 - 点击"加载会话"按钮可将历史结果加载到当前视图
 - 点击"删除会话"按钮可删除不需要的历史记录
- 3. 使用"比较会话"功能对比两次扫描结果:
 - 选择两个不同的扫描会话进行比较
 - 查看"新增主机"和"消失主机"两个标签页了解网络变化
 - 识别网络中的新设备或已移除设备
- 4. 通过"文件→保存扫描历史"菜单将历史记录保存到JSON文件中
- 5. 通过"文件→加载扫描历史"菜单从JSON文件加载历史记录

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2.5.5 计划任务

- 1. 通过"工具→计划扫描"菜单设置定时扫描任务
- 2. 在弹出的对话框中:
 - 选择扫描的日期和时间
 - 设置是否使用当前扫描设置
 - 配置是否自动保存结果
 - 设置是否在扫描完成后显示通知
- 3. 点击确定后, 系统将在指定时间自动执行扫描
- 4. 扫描结果将按照设置保存,并可选择性地显示通知

2.5.6 结果过滤

- 1. 使用扫描结果页面顶部的过滤工具栏筛选结果:
 - 按IP地址过滤(支持部分匹配)
 - 按厂商过滤(从下拉列表选择)
 - 按设备类型过滤(路由器、服务器、PC等)
- 2. 点击"应用过滤"按钮应用筛选条件
- 3. 点击"清除过滤"恢复显示所有结果

2.5.7 暗色模式

- 通过"视图→暗色模式"菜单项切换明暗主题
- 暗色模式下所有UI元素(包括图表)将采用深色背景,更适合夜间使用
- 设置将自动保存,下次启动时恢复上次的主题设置

2.6 MAC地址厂商识别

应用程序内置了常见设备制造商的MAC地址前缀数据库,可以识别出许多设备的厂商,例如:

- 苹果 (Apple)
- · 微软 (Microsoft)
- · 华为 (Huawei)
- 思科 (Cisco)
- 小米 (Xiaomi)
- TP-Link
- 联想 (Lenovo)
- 华硕 (ASUS)
- VMware虚拟机 等多种设备。

程序支持多种格式的MAC地址解析,包括:

- 标准冒号分隔格式: 00:1A:2B:3C:4D:5E
- 连字符分隔格式: 00-1A-2B-3C-4D-5E
- 不规则格式: 例如某些系统输出的单个字符格式, 如0:1A:2B:3:4D:5E

2.7 技术细节 7

2.7 技术细节

- **网络发现机制**: 使用优化的算法探测局域网设备,包括自适应超时设置和智能重试机制
- **多线程扫描**: 根据系统CPU核心数自动调整并行扫描线程数
- **伪MAC地址生成**: 当无法通过系统ARP表获取真实MAC地址时,使用基于IP的一致性伪MAC地址生成 址生成
- **超时控制**: 全局扫描超时保护机制, 防止在网络环境较差时应用程序卡住
- **代码文档**: 完整的Doxygen格式代码注释, 便于开发和维护

2.8 故障排除

2.8.1 常见问题

- 1. 无法检测到网络接口
 - 确保用户有足够的权限访问网络接口
 - · 在某些系统上,可能需要管理员/root权限运行程序
- 2. 扫描卡在99不动
 - 已修复此问题, 现在添加了120秒的全局超时限制
 - 如果仍然出现此问题,尝试减少自定义IP范围或使用"快速扫描"模式
- 3. 扫描速度慢
 - 尝试减少要扫描的端口数量
 - 减小超时设置值(默认为500毫秒)
 - 请注意,设置过小的超时值可能导致漏检主机
- 4. 某些设备没有被检测到
 - 某些设备可能配置了防火墙阻止ICMP和常见端口
 - 尝试增加超时设置值
 - 考虑在扫描设置中添加设备可能开放的特定端口
- 5. 拓扑图不显示某些设备之间的连接
 - 当前版本使用简化的拓扑推断算法
 - 所有设备默认连接到检测到的路由器/网关

2.8.2 性能优化

- 扫描大型网络(超过254个地址)时,建议使用自定义IP范围,分段扫描
- 在配置较低的计算机上,可以减少扫描的端口数量以提高速度
- 禁用"自动保存结果"可减少内存占用

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2.9 开发注意事项

2.9.1 QtCharts命名空间

此项目使用QtCharts库进行数据可视化,需要注意:

- 1. 在CMakeLists.txt中,我们使用 -DOT_CHARTS_USE_NAMESPACE 宏定义来简化命名空间的使用
- 2. 如果您直接在代码中使用 using namespace QtCharts;, 在某些Qt版本中可能导致编译错误
- 3. 当使用QtCharts类时,推荐以下两种方式之一:
 - 使用完整命名空间: QtCharts::QChart
 - 在CMakeLists.txt中添加全局宏定义: add_definitions(-DQT_CHARTS_USE_NAMESPACE)

2.9.2 内存管理和界面初始化

为确保程序稳定性:

- 1. 确保所有QWidget对象都有正确的父子关系,避免浮动窗口
- 2. 在MainWindow构造函数中,先创建UI组件,再创建功能对象(如扫描器、分析器等)
- 3. 信号槽连接前,确保对应的对象已正确初始化
- 4. 图表组件的创建和使用需要特别注意其生命周期管理

2.10 版本历史

2.10.1 v2.2.0

- 增加了扫描超时控制, 防止在部分网络环境下卡在99%
- 优化扫描性能,减少扫描IP数量,更快完成扫描
- 提高了应用程序稳定性, 改进了错误处理机制
- ·添加了完整的Doxygen格式代码注释
- 优化了MAC地址处理算法,增强了多种格式MAC地址的兼容性

2.10.2 v2.1.0

- · 修复了MAC地址解析问题, 增强了对不规则MAC地址格式的支持
- 实现了网络拓扑图的缩放和重置功能
- 优化了设备类型识别算法
- 改进了主窗口组件初始化顺序, 提高程序稳定性

2.10 版本历史 9

2.10.3 v2.0.0

- 添加了网络拓扑可视化功能
- 添加了设备类型识别功能
- 添加了扫描历史和会话比较功能
- 添加了统计分析和图表展示功能
- 添加了安全报告生成功能
- 添加了计划任务扫描功能
- 添加了结果过滤功能
- 添加了暗色模式

2.10.4 v1.0.0

- 初始版本
- 基本网络扫描功能
- 显示主机IP、主机名和MAC地址
- 支持端口扫描
- 支持MAC厂商识别

项目GitHub: https://github.com/example/networkscanner

10 网络扫描器

命名空间索引

3.1	命名空间列表	₹.
3. I	叩行针时则不	₹

这里列出了所有命名空间定义, 附带简要说明:

继承关系索引

4.1 类继承关系

此继承关系列表按字典顺序粗略的排序:

HostInfo	39
QGraphicsItem	
ConnectionLine	21
DeviceNode	32
QGraphicsView	
NetworkTopologyView	95
QMainWindow	
MainWindow	41
QObject	
NetworkScanner	69
ScanHistory	03
QRunnable	
ScanTask	15
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10MainWindowE_t	01
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11ScanHistoryE_t	01
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t	02
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14NetworkScannerE_t	02
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19NetworkTopologyViewE_t	03
QWidget	
DeviceAnalyzer	24
NetworkTopology	90
ScanSession	09
ScanStrategy	11
TopologyAnalyzer	18

14 继承关系索引

类索引

5.1 类列表

这里列出了所有类、结构、联合以及接口定义等,并附带简要说明:

ConnectionLine	21
DeviceAnalyzer	24
DeviceNode	32
HostInfo	
存储主机信息的结构体	39
MainWindow	41
NetworkScanner	
网络扫描器类	69
NetworkTopology	90
NetworkTopologyView	95
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10MainWindowE_t	101
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11ScanHistoryE_t	101
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t	102
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14NetworkScannerE_t	102
QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19NetworkTopologyViewE_t	103
ScanHistory	103
ScanSession	
ScanStrategy	
扫描策略类	111
ScanTask	
扫描任务类	115
TopologyAnalyzer 1	118

文件索引

6.1 文件列表

这里列出了所有文件,并附带简要说明:

deviceanalyzer.cpp
deviceanalyzer.h
main.cpp
mainwindow.cpp
mainwindow.h
networkscanner.cpp
网络扫描器类的实现 316
networkscanner.h
网络扫描器类定义 317
networktopology.cpp
networktopology.h
scanhistory.cpp
scanhistory.h
build/CMakeFiles/3.31.5/CompilerIdCXX/CMakeCXXCompilerId.cpp
build/CMakeFiles/NetScanner.dir/deviceanalyzer.cpp.o.d
build/CMakeFiles/NetScanner.dir/main.cpp.o.d
build/CMakeFiles/NetScanner.dir/mainwindow.cpp.o.d
build/CMakeFiles/NetScanner.dir/networkscanner.cpp.o.d
build/CMakeFiles/NetScanner.dir/networktopology.cpp.o.d
build/CMakeFiles/NetScanner.dir/scanhistory.cpp.o.d
build/CMakeFiles/NetScanner.dir/NetScanner_autogen/mocs_compilation.cpp.o.d
build/NetScanner_autogen/moc_predefs.h
build/NetScanner_autogen/mocs_compilation.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp.d
build/NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp.d
build/NetScanner_autogen/EWIEGA46WW/moc_networkscanner.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_networkscanner.cpp.d
build/NetScanner_autogen/EWIEGA46WW/moc_networktopology.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_networktopology.cpp.d
build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp
build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp.d
NetScanner_autogen/moc_predefs.h
NetScanner_autogen/mocs_compilation.cpp

文件索引

NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp
NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp.d
NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp
NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp.d
NetScanner_autogen/JRIAJ772TK/moc_deviceanalyzer.cpp
NetScanner_autogen/JRIAJ772TK/moc_deviceanalyzer.cpp.d
NetScanner_autogen/JRIAJ772TK/moc_mainwindow.cpp
NetScanner_autogen/JRIAJ772TK/moc_mainwindow.cpp.d
NetScanner_autogen/JRIAJ772TK/moc_networkscanner.cpp
NetScanner_autogen/JRIAJ772TK/moc_networkscanner.cpp.d
NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp
NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp.d 163
NetScanner_autogen/JRIAJ772TK/moc_scanhistory.cpp
NotScanner autogen/ IRIA 1772TK/moc scanhistory con d

命名空间文档

7.1 QT_WARNING_DISABLE_DEPRECATED 命名空间参考

类

- struct qt_meta_tag_ZN10MainWindowE_t
- struct qt_meta_tag_ZN11ScanHistoryE_t
- struct qt_meta_tag_ZN14DeviceAnalyzerE_t
- struct qt_meta_tag_ZN14NetworkScannerE_t
- struct qt_meta_tag_ZN19NetworkTopologyViewE_t

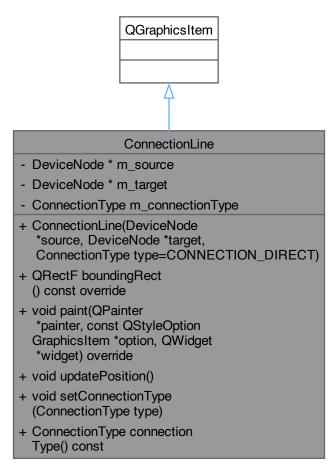
20 命名空间文档

类说明

8.1 ConnectionLine类参考

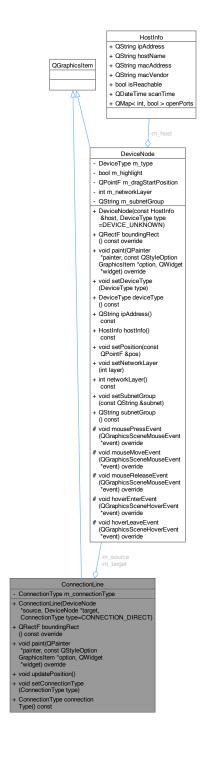
#include <networktopology.h>

类 ConnectionLine 继承关系图:



22 类说明

ConnectionLine 的协作图:



Public 成员函数

- ConnectionLine (DeviceNode *source, DeviceNode *target, ConnectionType type=CONNECTION_DIRECT)
- QRectF boundingRect () const override
- $\bullet \ \ void\ paint\ (QPainter\ *painter,\ const\ QStyleOptionGraphicsItem\ *option,\ QWidget\ *widget)\ override$
- void updatePosition ()
- void setConnectionType (ConnectionType type)
- ConnectionType connectionType () const

Private 属性

- DeviceNode * m_source
- DeviceNode * m_target
- ConnectionType m_connectionType

8.1.1 构造及析构函数说明

8.1.1.1 ConnectionLine()

函数调用图:

ConnectionLine::ConnectionLine ConnectionLine::updatePosition

8.1.2 成员函数说明

8.1.2.1 boundingRect()

```
QRectF ConnectionLine::boundingRect () const [override]
```

8.1.2.2 connectionType()

```
ConnectionType ConnectionLine::connectionType () const [inline]
```

8.1.2.3 paint()

8.1.2.4 setConnectionType()

24 类说明

8.1.2.5 updatePosition()

void ConnectionLine::updatePosition ()

这是这个函数的调用关系图:

ConnectionLine::ConnectionLine ConnectionLine::updatePosition

8.1.3 类成员变量说明

8.1.3.1 m_connectionType

ConnectionType ConnectionLine::m_connectionType [private]

8.1.3.2 m_source

DeviceNode* ConnectionLine::m_source [private]

8.1.3.3 m_target

DeviceNode* ConnectionLine::m_target [private]

该类的文档由以下文件生成:

- · networktopology.h
- networktopology.cpp

8.2 DeviceAnalyzer类 参考

#include <deviceanalyzer.h>

类 DeviceAnalyzer 继承关系图:



DeviceAnalyzer

- int m_totalHosts
- int m_reachableHosts
- QChart * m_deviceTypeChart
- QPieSeries * m_deviceType Series
- QChart * m_portDistribution Chart
- QBarSeries * m_portSeries
- QChart * m_vendorDistribution Chart
- QPieSeries * m_vendorSeries
- + DeviceAnalyzer(QWidget *parent=nullptr)
- + void analyzeHosts(const QList< HostInfo > &hosts)
- + void clear()
- + int getTotalHostsCount () const
- + int getReachableHostsCount () const
- + int getUnreachableHostsCount () const
- + QChart * getDeviceTypeChart () const
- + QChart * getPortDistribution Chart() const
- + QChart * getVendorDistribution Chart() const
- + QString generateSecurity
 Report(const QList< HostInfo
 > &hosts)
- void createDeviceTypeChart()
- void createPortDistribution Chart()
- void createVendorDistribution Chart()
- QString determineDeviceType (const HostInfo &host)

DeviceAnalyzer 的协作图:



DeviceAnalyzer

- int m_totalHosts
- int m_reachableHosts
- QChart * m_deviceTypeChart
- QPieSeries * m_deviceType Series
- QChart * m_portDistribution Chart
- QBarSeries * m_portSeries
- QChart * m_vendorDistribution Chart
- QPieSeries * m_vendorSeries
- + DeviceAnalyzer(QWidget *parent=nullptr)
- + void analyzeHosts(const QList< HostInfo > &hosts)
- + void clear()
- + int getTotalHostsCount () const
- + int getReachableHostsCount () const
- + int getUnreachableHostsCount () const
- + QChart * getDeviceTypeChart () const
- + QChart * getPortDistribution Chart() const
- + QChart * getVendorDistribution Chart() const
- + QString generateSecurity Report(const QList< HostInfo > &hosts)
- void createDeviceTypeChart()
- void createPortDistribution Chart()
- void createVendorDistribution Chart()
- QString determineDeviceType (const HostInfo &host)

信号

• void analysisCompleted ()

Public 成员函数

• DeviceAnalyzer (QWidget *parent=nullptr)

- void analyzeHosts (const QList< HostInfo > &hosts)
- void clear ()
- int getTotalHostsCount () const
- int getReachableHostsCount () const
- int getUnreachableHostsCount () const
- QChart * getDeviceTypeChart () const
- QChart * getPortDistributionChart () const
- QChart * getVendorDistributionChart () const
- QString generateSecurityReport (const QList< HostInfo > &hosts)

Private 成员函数

- void createDeviceTypeChart ()
- void createPortDistributionChart ()
- void createVendorDistributionChart ()
- QString determineDeviceType (const HostInfo &host)

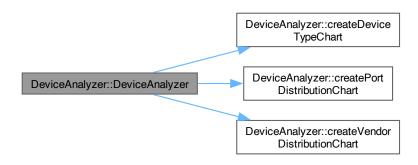
Private 属性

- int m_totalHosts
- int m_reachableHosts
- QChart * m_deviceTypeChart
- QPieSeries * m_deviceTypeSeries
- QChart * m_portDistributionChart
- QBarSeries * m_portSeries
- QChart * m_vendorDistributionChart
- QPieSeries * m_vendorSeries

8.2.1 构造及析构函数说明

8.2.1.1 DeviceAnalyzer()

函数调用图:



8.2.2 成员函数说明

8.2.2.1 analysisCompleted

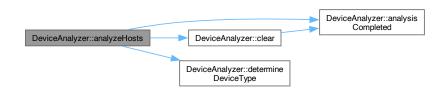
void DeviceAnalyzer::analysisCompleted () [signal]

这是这个函数的调用关系图:



8.2.2.2 analyzeHosts()

函数调用图:



8.2.2.3 clear()

void DeviceAnalyzer::clear ()

函数调用图:



这是这个函数的调用关系图:



8.2.2.4 createDeviceTypeChart()

void DeviceAnalyzer::createDeviceTypeChart () [private]

这是这个函数的调用关系图:



8.2.2.5 createPortDistributionChart()

void DeviceAnalyzer::createPortDistributionChart () [private]

这是这个函数的调用关系图:



8.2.2.6 createVendorDistributionChart()

void DeviceAnalyzer::createVendorDistributionChart () [private]

这是这个函数的调用关系图:



8.2.2.7 determineDeviceType()

这是这个函数的调用关系图:



8.2.2.8 generateSecurityReport()

8.2.2.9 getDeviceTypeChart()

```
QChart * DeviceAnalyzer::getDeviceTypeChart () const [inline]
```

8.2.2.10 getPortDistributionChart()

```
QChart * DeviceAnalyzer::getPortDistributionChart () const [inline]
```

8.2.2.11 getReachableHostsCount()

```
int DeviceAnalyzer::getReachableHostsCount () const [inline]
```

8.2.2.12 getTotalHostsCount()

int DeviceAnalyzer::getTotalHostsCount () const [inline]

8.2.2.13 getUnreachableHostsCount()

int DeviceAnalyzer::getUnreachableHostsCount () const [inline]

8.2.2.14 getVendorDistributionChart()

QChart * DeviceAnalyzer::getVendorDistributionChart () const [inline]

8.2.3 类成员变量说明

8.2.3.1 m_deviceTypeChart

QChart* DeviceAnalyzer::m_deviceTypeChart [private]

8.2.3.2 m_deviceTypeSeries

QPieSeries* DeviceAnalyzer::m_deviceTypeSeries [private]

8.2.3.3 m_portDistributionChart

QChart* DeviceAnalyzer::m_portDistributionChart [private]

8.2.3.4 m_portSeries

QBarSeries* DeviceAnalyzer::m_portSeries [private]

8.2.3.5 m_reachableHosts

int DeviceAnalyzer::m_reachableHosts [private]

8.2.3.6 m_totalHosts

int DeviceAnalyzer::m_totalHosts [private]

8.2.3.7 m_vendorDistributionChart

QChart* DeviceAnalyzer::m_vendorDistributionChart [private]

8.2.3.8 m_vendorSeries

QPieSeries* DeviceAnalyzer::m_vendorSeries [private]

该类的文档由以下文件生成:

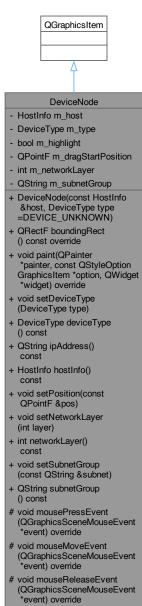
- · deviceanalyzer.h
- build/NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp
- · deviceanalyzer.cpp
- NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp
- NetScanner_autogen/JRIAJ772TK/moc_deviceanalyzer.cpp

8.3 DeviceNode类参考

#include <networktopology.h>

8.3 DeviceNode类 参考 33

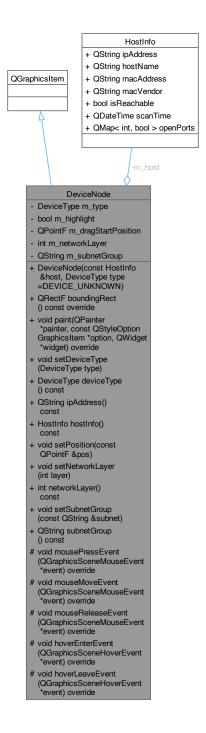
类 DeviceNode 继承关系图:



void hoverEnterEvent (QGraphicsSceneHoverEvent *event) override

void hoverLeaveEvent (QGraphicsSceneHoverEvent *event) override

DeviceNode 的协作图:



Public 成员函数

- DeviceNode (const HostInfo &host, DeviceType type=DEVICE_UNKNOWN)
- QRectF boundingRect () const override
- void paint (QPainter *painter, const QStyleOptionGraphicsItem *option, QWidget *widget) override
- void setDeviceType (DeviceType type)
- DeviceType deviceType () const

8.3 DeviceNode类 参考 35

- · QString ipAddress () const
- · HostInfo hostInfo () const
- void setPosition (const QPointF &pos)
- void setNetworkLayer (int layer)
- int networkLayer () const
- void setSubnetGroup (const QString &subnet)
- QString subnetGroup () const

Protected 成员函数

- void mousePressEvent (QGraphicsSceneMouseEvent *event) override
- void mouseMoveEvent (QGraphicsSceneMouseEvent *event) override
- void mouseReleaseEvent (QGraphicsSceneMouseEvent *event) override
- void hoverEnterEvent (QGraphicsSceneHoverEvent *event) override
- void hoverLeaveEvent (QGraphicsSceneHoverEvent *event) override

Private 属性

- · HostInfo m_host
- DeviceType m_type
- bool m_highlight
- QPointF m_dragStartPosition
- int m_networkLayer
- QString m_subnetGroup

8.3.1 构造及析构函数说明

8.3.1.1 DeviceNode()

8.3.2 成员函数说明

8.3.2.1 boundingRect()

```
QRectF DeviceNode::boundingRect () const [override]
```

8.3.2.2 deviceType()

```
DeviceType DeviceNode::deviceType () const [inline] 这是这个函数的调用关系图:
```



8.3.2.3 hostInfo()

```
HostInfo DeviceNode::hostInfo () const [inline]
8.3.2.4 hoverEnterEvent()
void DeviceNode::hoverEnterEvent (
            QGraphicsSceneHoverEvent * event) [override], [protected]
8.3.2.5 hoverLeaveEvent()
void DeviceNode::hoverLeaveEvent (
            QGraphicsSceneHoverEvent * event) [override], [protected]
8.3.2.6 ipAddress()
QString DeviceNode::ipAddress () const [inline]
8.3.2.7 mouseMoveEvent()
void DeviceNode::mouseMoveEvent (
            QGraphicsSceneMouseEvent * event) [override], [protected]
8.3.2.8 mousePressEvent()
void DeviceNode::mousePressEvent (
            QGraphicsSceneMouseEvent * event) [override], [protected]
8.3.2.9 mouseReleaseEvent()
void DeviceNode::mouseReleaseEvent (
            QGraphicsSceneMouseEvent * event) [override], [protected]
8.3.2.10 networkLayer()
int DeviceNode::networkLayer () const [inline]
这是这个函数的调用关系图:
```



8.3 DeviceNode类 参考 37

8.3.2.11 paint()

8.3.2.12 setDeviceType()

8.3.2.13 setNetworkLayer()

这是这个函数的调用关系图:



8.3.2.14 setPosition()

8.3.2.15 setSubnetGroup()



8.3.2.16 subnetGroup()

QString DeviceNode::subnetGroup () const [inline]

8.3.3 类成员变量说明

8.3.3.1 m_dragStartPosition

QPointF DeviceNode::m_dragStartPosition [private]

8.3.3.2 m_highlight

bool DeviceNode::m_highlight [private]

8.3.3.3 m_host

HostInfo DeviceNode::m_host [private]

8.3.3.4 m_networkLayer

int DeviceNode::m_networkLayer [private]

8.3.3.5 m_subnetGroup

QString DeviceNode::m_subnetGroup [private]

8.3.3.6 m_type

DeviceType DeviceNode::m_type [private]

该类的文档由以下文件生成:

- networktopology.h
- networktopology.cpp

8.4 HostInfo结构体 参考 39

8.4 HostInfo结构体参考

存储主机信息的结构体

#include <networkscanner.h>

HostInfo 的协作图:

HostInfo

- + QString ipAddress
- + QString hostName
- + QString macAddress
- + QString macVendor
- + bool isReachable
- + QDateTime scanTime
- + QMap< int, bool > openPorts

Public 属性

QString ipAddress

主机IP地址

QString hostName

主机名称

• QString macAddress

MAC物理地址

QString macVendor

MAC地址对应的厂商

• bool isReachable

主机是否可达

QDateTime scanTime

扫描时间

QMap< int, bool > openPorts

开放的端口及状态 (端口号 -> 是否开放)

8.4.1 详细描述

存储主机信息的结构体

包含IP地址、主机名、MAC地址、厂商信息等扫描结果

40 类说明

8.4.2 类成员变量说明

8.4.2.1 hostName

QString HostInfo::hostName

主机名称

8.4.2.2 ipAddress

QString HostInfo::ipAddress

主机IP地址

8.4.2.3 isReachable

bool HostInfo::isReachable

主机是否可达

8.4.2.4 macAddress

QString HostInfo::macAddress

MAC物理地址

8.4.2.5 macVendor

QString HostInfo::macVendor

MAC地址对应的厂商

8.4.2.6 openPorts

QMap<int, bool> HostInfo::openPorts

开放的端口及状态(端口号->是否开放)

8.4.2.7 scanTime

QDateTime HostInfo::scanTime

扫描时间

该结构体的文档由以下文件生成:

networkscanner.h

MainWindow类 参考 8.5

#include <mainwindow.h>

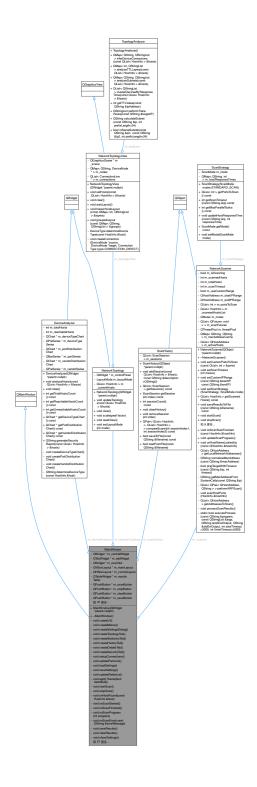
类 MainWindow 继承关系图:



MainWindow

- QWidget * m_centralWidget
- QTabWidget * m_tabWidget
- QWidget * m_scanTab
- QVBoxLayout * m_mainLayout
- QHBoxLayout * m_controlLayout
- QTableWidget * m_results
- QPushButton * m_scanButton
- QPushButton * m_stopButton
- QPushButton * m_clearButton
- QPushButton * m_saveButton 和 51 更多...
- + MainWindow(QWidget *parent=nullptr)
- + ~MainWindow()
- void createUI()
- void createMenus()
- void createSettingsDialog()
- void createTopologyTab()
- void createStatisticsTab()
- void createHistoryTab()
- void createDetailsTab()
- void createSecurityTab()
- void setupConnections()
- void updatePortsList()
- void loadSettings()
- void saveSettings() - void updateStatistics()
- void applyTheme(bool darkMode)
- void startScan()
- void stopScan()
- void onHostFound(const HostInfo &host)
- void onScanStarted()
- void onScanFinished()
- void onScanProgress (int progress)
- void onScanError(const QString &errorMessage)
- void saveResults()
- void clearResults()
- void showSettings() 和 21 更多...

MainWindow 的协作图:



Public 成员函数

- MainWindow (QWidget *parent=nullptr)
- \sim MainWindow ()

Private 槽

• void startScan ()

- void stopScan ()
- void onHostFound (const HostInfo &host)
- void onScanStarted ()
- void onScanFinished ()
- · void onScanProgress (int progress)
- void onScanError (const QString &errorMessage)
- void saveResults ()
- · void clearResults ()
- · void showSettings ()
- · void applySettings ()
- void showAbout ()
- void showHostDetails (int row, int column)
- void exportToCSV ()
- void togglePortScanOptions (bool checked)
- void toggleRangeOptions (bool checked)
- void showTopologyView ()
- void showStatisticsView ()
- void showHistoryView ()
- · void generateSecurityReport ()
- void saveTopologyImage ()
- void toggleDarkMode (bool enable)
- void compareScanResults ()
- · void scheduleScan ()
- void saveHistoryToFile ()
- void loadHistoryFromFile ()
- void updateNetworkTopology ()
- void refreshTopology ()
- · void filterResults ()
- void clearFilters ()
- void onThemeChanged ()

Private 成员函数

- void createUI ()
- void createMenus ()
- void createSettingsDialog ()
- void createTopologyTab ()
- void createStatisticsTab ()
- void createHistoryTab ()
- void createDetailsTab ()
- void createSecurityTab ()
- void setupConnections ()
- void updatePortsList ()
- void loadSettings ()
- void saveSettings ()
- void updateStatistics ()
- void applyTheme (bool darkMode)

Private 属性

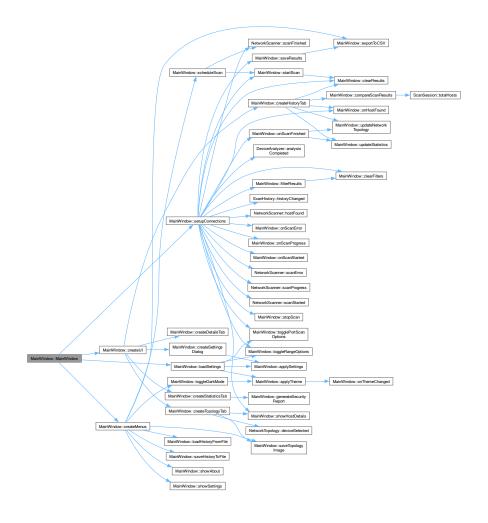
- QWidget * m_centralWidget
- QTabWidget * m_tabWidget
- QWidget * m_scanTab
- QVBoxLayout * m_mainLayout
- QHBoxLayout * m_controlLayout
- QTableWidget * m_resultsTable
- QPushButton * m_scanButton
- QPushButton * m_stopButton
- QPushButton * m_clearButton
- QPushButton * m_saveButton
- QProgressBar * m_progressBar
- QLabel * m_statusLabel
- QStatusBar * m_statusBar
- QWidget * m_settingsTab
- QVBoxLayout * m_settingsLayout
- QGroupBox * m_portsGroupBox
- QCheckBox * m_customPortsCheckBox
- QLineEdit * m_portsLineEdit
- QSpinBox * m_timeoutSpinBox
- QGroupBox * m_rangeGroupBox
- QCheckBox * m_customRangeCheckBox
- QLineEdit * m_startIPLineEdit
- QLineEdit * m_endIPLineEdit
- QWidget * m_detailsTab
- QVBoxLayout * m_detailsLayout
- QTextEdit * m_detailsTextEdit
- QWidget * m_topologyTab
- NetworkTopology * m_networkTopology
- QWidget * m_statisticsTab
- DeviceAnalyzer * m_deviceAnalyzer
- QChartView * m_deviceTypeChartView
- QChartView * m_vendorChartView
- QChartView * m_portDistributionChartView
- QTextEdit * m_securityReportText
- QWidget * m_historyTab
- ScanHistory * m_scanHistory
- QComboBox * m_sessionComboBox
- QTableWidget * m_historyTable
- QMenu * m_fileMenu
- QMenu * m_viewMenu
- QMenu * m_toolsMenu
- QMenu * m_helpMenu
- QAction * m_exportAction
- QAction * m_saveHistoryAction
- $\bullet \ \ \mathsf{QAction} * \mathsf{m_loadHistoryAction} \\$
- QAction * m_saveTopologyAction
- QAction * m_exitAction
- QAction * m_settingsAction
- QAction * m_darkModeAction
- QAction * m_scheduleScanAction
- QAction * m_aboutAction
- QWidget * m_filterWidget
- QLineEdit * m_filterIPLineEdit

- QComboBox * m_filterVendorComboBox
- $\bullet \ \ QComboBox*m_filterTypeComboBox$
- QPushButton * m_filterButton
- QPushButton * m_clearFilterButton
- NetworkScanner * m_scanner
- int m_hostsFound
- int m_currentHostIndex
- bool m_darkModeEnabled

8.5.1 构造及析构函数说明

8.5.1.1 MainWindow()

函数调用图:



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8.5.1.2 ~MainWindow()

MainWindow::~MainWindow () 函数调用图:



8.5.2 成员函数说明

8.5.2.1 applySettings

void MainWindow::applySettings () [private], [slot] 这是这个函数的调用关系图:



8.5.2.2 applyTheme()

```
void MainWindow::applyTheme (
          bool darkMode) [private]
```

函数调用图:





8.5.2.3 clearFilters

void MainWindow::clearFilters () [private], [slot]

这是这个函数的调用关系图:



8.5.2.4 clearResults

void MainWindow::clearResults () [private], [slot]

这是这个函数的调用关系图:



8.5.2.5 compareScanResults

void MainWindow::compareScanResults () [private], [slot]

函数调用图:





8.5.2.6 createDetailsTab()

void MainWindow::createDetailsTab () [private]

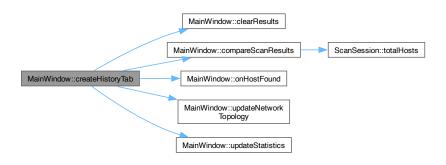
这是这个函数的调用关系图:



8.5.2.7 createHistoryTab()

void MainWindow::createHistoryTab () [private]

函数调用图:



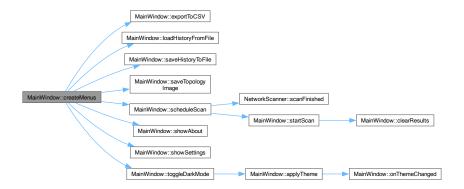
这是这个函数的调用关系图:



8.5.2.8 createMenus()

void MainWindow::createMenus () [private]

函数调用图:



这是这个函数的调用关系图:



8.5.2.9 createSecurityTab()

void MainWindow::createSecurityTab () [private]

8.5.2.10 createSettingsDialog()

void MainWindow::createSettingsDialog () [private]

函数调用图:



这是这个函数的调用关系图:



8.5.2.11 createStatisticsTab()

void MainWindow::createStatisticsTab () [private]

函数调用图:



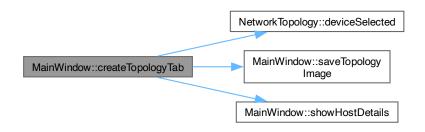
这是这个函数的调用关系图:



8.5.2.12 createTopologyTab()

void MainWindow::createTopologyTab () [private]

函数调用图:



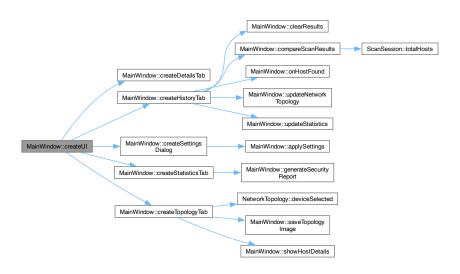
这是这个函数的调用关系图:



8.5.2.13 createUI()

void MainWindow::createUI () [private]

函数调用图:



这是这个函数的调用关系图:



8.5.2.14 exportToCSV

void MainWindow::exportToCSV () [private], [slot]

这是这个函数的调用关系图:



8.5.2.15 filterResults

void MainWindow::filterResults () [private], [slot]

函数调用图:



这是这个函数的调用关系图:



8.5.2.16 generateSecurityReport

void MainWindow::generateSecurityReport () [private], [slot]



8.5.2.17 loadHistoryFromFile

void MainWindow::loadHistoryFromFile () [private], [slot] 这是这个函数的调用关系图:



8.5.2.18 loadSettings()

void MainWindow::loadSettings () [private] 函数调用图:



这是这个函数的调用关系图:



8.5.2.19 onHostFound



8.5.2.20 onScanError

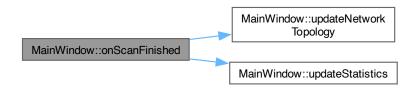
这是这个函数的调用关系图:



8.5.2.21 onScanFinished

```
void MainWindow::onScanFinished () [private], [slot]
```

函数调用图:



这是这个函数的调用关系图:



8.5.2.22 onScanProgress



8.5.2.23 onScanStarted

void MainWindow::onScanStarted () [private], [slot]

这是这个函数的调用关系图:



8.5.2.24 onThemeChanged

void MainWindow::onThemeChanged () [private], [slot]

这是这个函数的调用关系图:



8.5.2.25 refreshTopology

void MainWindow::refreshTopology () [private], [slot]

函数调用图:



8.5.2.26 saveHistoryToFile

void MainWindow::saveHistoryToFile () [private], [slot]



8.5.2.27 saveResults

void MainWindow::saveResults () [private], [slot]

函数调用图:



这是这个函数的调用关系图:



8.5.2.28 saveSettings()

void MainWindow::saveSettings () [private]

这是这个函数的调用关系图:



8.5.2.29 saveTopologyImage

void MainWindow::saveTopologyImage () [private], [slot]



8.5.2.30 scheduleScan

void MainWindow::scheduleScan () [private], [slot]

函数调用图:



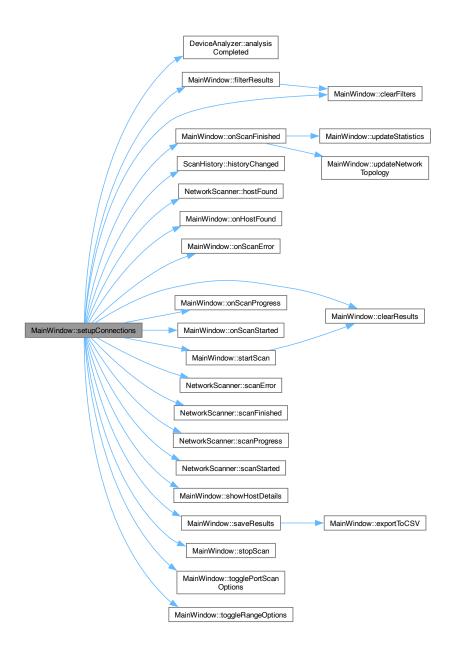
这是这个函数的调用关系图:



8.5.2.31 setupConnections()

void MainWindow::setupConnections () [private]

函数调用图:





8.5.2.32 showAbout

```
void MainWindow::showAbout () [private], [slot]
```

这是这个函数的调用关系图:



8.5.2.33 showHistoryView

```
void MainWindow::showHistoryView () [private], [slot]
```

8.5.2.34 showHostDetails

这是这个函数的调用关系图:



8.5.2.35 showSettings

```
void MainWindow::showSettings () [private], [slot]
```

这是这个函数的调用关系图:



8.5.2.36 showStatisticsView

void MainWindow::showStatisticsView () [private], [slot]

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8.5.2.37 showTopologyView

void MainWindow::showTopologyView () [private], [slot]

8.5.2.38 startScan

void MainWindow::startScan () [private], [slot]

函数调用图:



这是这个函数的调用关系图:



8.5.2.39 stopScan

void MainWindow::stopScan () [private], [slot]



8.5.2.40 toggleDarkMode

```
void MainWindow::toggleDarkMode (
          bool enable) [private], [slot]
```

函数调用图:



这是这个函数的调用关系图:



8.5.2.41 togglePortScanOptions

这是这个函数的调用关系图:



8.5.2.42 toggleRangeOptions

```
void MainWindow::toggleRangeOptions (
                bool checked) [private], [slot]
```



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8.5.2.43 updateNetworkTopology

void MainWindow::updateNetworkTopology () [private], [slot]

这是这个函数的调用关系图:



8.5.2.44 updatePortsList()

void MainWindow::updatePortsList () [private]

8.5.2.45 updateStatistics()

void MainWindow::updateStatistics () [private]

这是这个函数的调用关系图:



8.5.3 类成员变量说明

8.5.3.1 m_aboutAction

QAction* MainWindow::m_aboutAction [private]

8.5.3.2 m_centralWidget

QWidget* MainWindow::m_centralWidget [private]

8.5.3.3 m_clearButton

QPushButton* MainWindow::m_clearButton [private]

8.5.3.4 m_clearFilterButton

QPushButton* MainWindow::m_clearFilterButton [private]

8.5.3.5 m_controlLayout

QHBoxLayout* MainWindow::m_controlLayout [private]

8.5.3.6 m_currentHostIndex

int MainWindow::m_currentHostIndex [private]

8.5.3.7 m_customPortsCheckBox

QCheckBox* MainWindow::m_customPortsCheckBox [private]

8.5.3.8 m_customRangeCheckBox

QCheckBox* MainWindow::m_customRangeCheckBox [private]

8.5.3.9 m_darkModeAction

QAction* MainWindow::m_darkModeAction [private]

8.5.3.10 m_darkModeEnabled

bool MainWindow::m_darkModeEnabled [private]

8.5.3.11 m_detailsLayout

QVBoxLayout* MainWindow::m_detailsLayout [private]

8.5.3.12 m_detailsTab

QWidget* MainWindow::m_detailsTab [private]

8.5.3.13 m_detailsTextEdit

QTextEdit* MainWindow::m_detailsTextEdit [private]

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8.5.3.14 m_deviceAnalyzer

DeviceAnalyzer* MainWindow::m_deviceAnalyzer [private]

8.5.3.15 m_deviceTypeChartView

QChartView* MainWindow::m_deviceTypeChartView [private]

8.5.3.16 m_endIPLineEdit

QLineEdit* MainWindow::m_endIPLineEdit [private]

8.5.3.17 m_exitAction

QAction* MainWindow::m_exitAction [private]

8.5.3.18 m_exportAction

QAction* MainWindow::m_exportAction [private]

8.5.3.19 m_fileMenu

QMenu* MainWindow::m_fileMenu [private]

8.5.3.20 m_filterButton

QPushButton* MainWindow::m_filterButton [private]

8.5.3.21 m_filterIPLineEdit

QLineEdit* MainWindow::m_filterIPLineEdit [private]

8.5.3.22 m_filterTypeComboBox

QComboBox* MainWindow::m_filterTypeComboBox [private]

8.5.3.23 m_filterVendorComboBox

QComboBox* MainWindow::m_filterVendorComboBox [private]

8.5.3.24 m_filterWidget

QWidget* MainWindow::m_filterWidget [private]

8.5.3.25 m_helpMenu

QMenu* MainWindow::m_helpMenu [private]

8.5.3.26 m_historyTab

QWidget* MainWindow::m_historyTab [private]

8.5.3.27 m_historyTable

QTableWidget* MainWindow::m_historyTable [private]

8.5.3.28 m_hostsFound

int MainWindow::m_hostsFound [private]

8.5.3.29 m_loadHistoryAction

QAction* MainWindow::m_loadHistoryAction [private]

8.5.3.30 m_mainLayout

QVBoxLayout* MainWindow::m_mainLayout [private]

8.5.3.31 m_networkTopology

NetworkTopology* MainWindow::m_networkTopology [private]

$8.5.3.32 \quad m_portDistributionChartView$

QChartView* MainWindow::m_portDistributionChartView [private]

$8.5.3.33 \quad m_portsGroupBox$

QGroupBox* MainWindow::m_portsGroupBox [private]

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8.5.3.34 m_portsLineEdit

QLineEdit* MainWindow::m_portsLineEdit [private]

8.5.3.35 m_progressBar

QProgressBar* MainWindow::m_progressBar [private]

8.5.3.36 m_rangeGroupBox

QGroupBox* MainWindow::m_rangeGroupBox [private]

8.5.3.37 m_resultsTable

QTableWidget* MainWindow::m_resultsTable [private]

8.5.3.38 m_saveButton

QPushButton* MainWindow::m_saveButton [private]

8.5.3.39 m_saveHistoryAction

QAction* MainWindow::m_saveHistoryAction [private]

8.5.3.40 m_saveTopologyAction

QAction* MainWindow::m_saveTopologyAction [private]

8.5.3.41 m_scanButton

QPushButton* MainWindow::m_scanButton [private]

8.5.3.42 m_scanHistory

ScanHistory* MainWindow::m_scanHistory [private]

8.5.3.43 m_scanner

NetworkScanner* MainWindow::m_scanner [private]

8.5 MainWindow类参考 67

8.5.3.44 m_scanTab

QWidget* MainWindow::m_scanTab [private]

8.5.3.45 m_scheduleScanAction

QAction* MainWindow::m_scheduleScanAction [private]

8.5.3.46 m_securityReportText

QTextEdit* MainWindow::m_securityReportText [private]

8.5.3.47 m_sessionComboBox

QComboBox* MainWindow::m_sessionComboBox [private]

8.5.3.48 m_settingsAction

QAction* MainWindow::m_settingsAction [private]

8.5.3.49 m_settingsLayout

QVBoxLayout* MainWindow::m_settingsLayout [private]

8.5.3.50 m_settingsTab

QWidget* MainWindow::m_settingsTab [private]

8.5.3.51 m_startIPLineEdit

QLineEdit* MainWindow::m_startIPLineEdit [private]

8.5.3.52 m_statisticsTab

QWidget* MainWindow::m_statisticsTab [private]

8.5.3.53 m_statusBar

QStatusBar* MainWindow::m_statusBar [private]

8.5.3.54 m_statusLabel

QLabel* MainWindow::m_statusLabel [private]

8.5.3.55 m_stopButton

QPushButton* MainWindow::m_stopButton [private]

8.5.3.56 m_tabWidget

QTabWidget* MainWindow::m_tabWidget [private]

8.5.3.57 m_timeoutSpinBox

QSpinBox* MainWindow::m_timeoutSpinBox [private]

8.5.3.58 m_toolsMenu

QMenu* MainWindow::m_toolsMenu [private]

8.5.3.59 m_topologyTab

QWidget* MainWindow::m_topologyTab [private]

8.5.3.60 m_vendorChartView

QChartView* MainWindow::m_vendorChartView [private]

8.5.3.61 m_viewMenu

QMenu* MainWindow::m_viewMenu [private]

该类的文档由以下文件生成:

- · mainwindow.h
- · mainwindow.cpp

8.6 NetworkScanner类参考

网络扫描器类

#include <networkscanner.h>

类 NetworkScanner 继承关系图:



NetworkScanner 的协作图:



Public 槽

void onScanTaskFinished (const HostInfo &hostInfo)
 处理扫描任务完成

• void updateScanProgress ()

更新扫描进度

• void onHostNameLookedUp (const QHostInfo &hostInfo)

主机名查询完成处理

信号

void hostFound (const HostInfo &host)

找到主机信号

• void scanStarted ()

扫描开始信号

void scanFinished ()

扫描完成信号

void scanProgress (int progress)

扫描进度更新信号

void scanError (const QString &errorMessage)

扫描错误信号

Public 成员函数

• NetworkScanner (QObject *parent=nullptr)

构造函数

∼NetworkScanner ()

析构函数

 $\bullet \ \ \mathsf{void} \ \mathbf{setCustomPortsToScan} \ (\mathsf{const} \ \mathsf{QList} \! < \mathsf{int} > \mathtt{\&ports}) \\$

设置自定义端口扫描列表

void setScanTimeout (int msecs)

设置扫描超时时间

void setCustomIPRange (const QString &startIP, const QString &endIP)

设置自定义IP范围

void setScanStrategy (ScanStrategy::ScanMode mode)

设置扫描策略

• QList< HostInfo > getScannedHosts () const

获取扫描结果

void saveResultsToFile (const QString &filename) const

保存结果到文件

• void startScan ()

开始扫描

void stopScan ()

停止扫描

• bool isScanning () const

检查是否正在扫描

QList< QHostAddress > quickPingScan (const QList< QHostAddress > &addresses)

快速Ping扫描方法

• bool isHostReachable (const QHostAddress &address, int timeout)

检查主机是否可达

bool isReachableOnPorts (const QHostAddress & address, const QList < int > &ports, int timeout)

检查主机在多个端口上是否可达

void scanHost (const QHostAddress &address)

扫描单个主机

QString lookupHostName (const QHostAddress &address)

查询主机名

QString lookupMacAddress (const QHostAddress &address)

查询MAC地址

QString lookupMacVendor (const QString &macAddress)

查询MAC地址对应的厂商

• QString generatePseudoMACFromIP (const QString &ip)

根据IP地址生成伪MAC地址

Private 成员函数

QList< QHostAddress > getLocalNetworkAddresses ()

获取本地网络地址列表

QString normalizeMacAddress (const QString &macAddress)

MAC地址规范化

bool pingTargetWithTimeout (const QString &ip, int timeout)

使用ping命令检测目标是否可达

QString getMacAddressFromSystemCalls (const QString &ip)

通过系统调用获取MAC地址

QList< QPair< QHostAddress, QString > > performARPScan ()

执行ARP扫描

void scanHostPorts (HostInfo &hostInfo)

扫描主机端口

QList< QHostAddress
 getAddressesToScan ()

获取要扫描的地址列表

· void processScanResults ()

处理扫描结果

静态 Private 成员函数

 static bool executeProcess (const QString &program, const QStringList &args, QString &stdOutOutput, QString &stdErrOutput, int startTimeout=2000, int finishTimeout=5000)

执行外部进程

Private 属性

bool m_isScanning

是否正在扫描

• int m_scannedHosts

已扫描主机数

• int m_totalHosts

总主机数

• int m_scanTimeout

扫描超时时间

bool m_useCustomRange

是否使用自定义IP范围

QHostAddress m_startIPRange

起始IP地址

• QHostAddress m_endIPRange

结束IP地址

QList< int > m_portsToScan

要扫描的端口列表

QList< HostInfo > m_scannedHostsList

扫描结果列表

QMutex m_mutex

线程同步互斥锁

QList< QFuture< void >> m_scanFutures

并行扫描任务

QThreadPool m_threadPool

线程池

QMap < QString, QString > m_macAddressCache
 MAC地址缓存

• ScanStrategy m_scanStrategy

扫描策略

QList < QHostAddress > m_activeHosts
 活跃主机列表

8.6.1 详细描述

网络扫描器类

提供网络设备发现和端口扫描的核心功能

8.6.2 构造及析构函数说明

8.6.2.1 NetworkScanner()

构造函数

NetworkScanner类构造函数

参数

parent	父对象
parent	父对象

初始化扫描器参数和线程池

8.6.2.2 ~NetworkScanner()

NetworkScanner::~NetworkScanner ()

析构函数

NetworkScanner类析构函数

停止扫描并清理资源 函数调用图:



8.6.3 成员函数说明

8.6.3.1 executeProcess()

执行外部进程

参数

program	程序路径
args	参数列表
stdOutOutput	标准输出结果
stdErrOutput	标准错误结果
startTimeout	启动超时(毫秒)
finishTimeout	完成超时(毫秒)

返回

是否执行成功

8.6.3.2 generatePseudoMACFromIP()

```
QString NetworkScanner::generatePseudoMACFromIP ( const QString & ip)
```

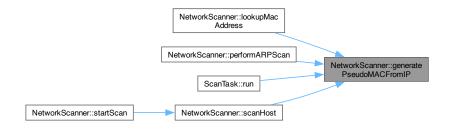
根据IP地址生成伪MAC地址

参数



返回

生成的伪MAC地址



8.6.3.3 getAddressesToScan()

QList< QHostAddress > NetworkScanner::getAddressesToScan () [private]

获取要扫描的地址列表

返回

地址列表

8.6.3.4 getLocalNetworkAddresses()

QList< QHostAddress > NetworkScanner::getLocalNetworkAddresses () [private]

获取本地网络地址列表

返回

本地网络地址列表

这是这个函数的调用关系图:



8.6.3.5 getMacAddressFromSystemCalls()

```
QString NetworkScanner::getMacAddressFromSystemCalls ( const QString & ip) [private]
```

通过系统调用获取MAC地址

参数

ip 目标IP地址

返回

MAC地址

8.6.3.6 getScannedHosts()

```
QList< HostInfo > NetworkScanner::getScannedHosts () const
```

获取扫描结果

返回

扫描到的主机信息列表

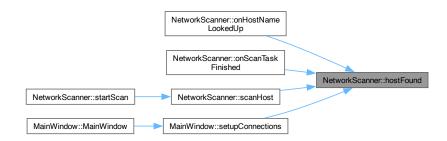
8.6.3.7 hostFound

找到主机信号

参数

host 主机信息

这是这个函数的调用关系图:



8.6.3.8 isHostReachable()

检查主机是否可达

参数

address	主机地址
timeout	超时时间(毫秒)

返回

主机是否可达

8.6.3.9 isReachableOnPorts()

检查主机在多个端口上是否可达

参数

address	主机地址
ports	端口列表
timeout	超时时间(毫秒)

返回

是否至少有一个端口可达

8.6.3.10 isScanning()

```
bool NetworkScanner::isScanning () const
检查是否正在扫描
```

返回

是否正在扫描

8.6.3.11 lookupHostName()

查询主机名

参数

返回

主机名



8.6.3.12 lookupMacAddress()

查询MAC地址

参数

address 主机地址

返回

MAC地址

函数调用图:



8.6.3.13 lookupMacVendor()

QString NetworkScanner::lookupMacVendor (${\tt const\ QString\ \&\ \it macAddress)}$

查询MAC地址对应的厂商

参数

macAddress MAC地址

返回

厂商名称



8.6.3.14 normalizeMacAddress()

MAC地址规范化

参数

macAddress 原始MAC地址

返回

规范化的MAC地址

这是这个函数的调用关系图:



8.6.3.15 onHostNameLookedUp

主机名查询完成处理

参数

hostInfo 主机信息

函数调用图:



8.6.3.16 onScanTaskFinished

处理扫描任务完成

参数

hostInfo 扫描到的主机信息

函数调用图:



8.6.3.17 performARPScan()

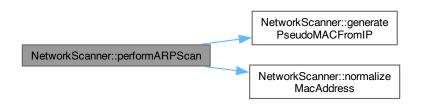
 ${\tt QList<\ QPair<\ QHostAddress,\ QString\ >>\ NetworkScanner::performARPScan\ ()\quad [private]}$

执行ARP扫描

返回

地址和MAC地址对的列表

函数调用图:



8.6.3.18 pingTargetWithTimeout()

使用ping命令检测目标是否可达

参数

ip	目标IP地址
timeout	超时时间(毫秒)

返回

是否可达

8.6.3.19 processScanResults()

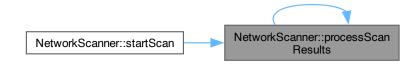
void NetworkScanner::processScanResults () [private]

处理扫描结果

函数调用图:



这是这个函数的调用关系图:



8.6.3.20 quickPingScan()

 $\label{eq:QList} $$\operatorname{QHostAddress} > \operatorname{NetworkScanner::quickPingScan} \ ($$\operatorname{const} \operatorname{QList} < \operatorname{QHostAddress} > \& \ addresses)$$$

快速Ping扫描方法

参数

addresses 要扫描的地址列表

返回

活跃的主机地址列表

8.6.3.21 saveResultsToFile()

保存结果到文件

参数

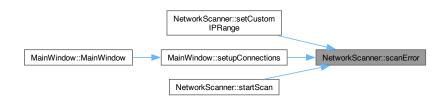
filename 文件名

8.6.3.22 scanError

扫描错误信号

参数

errorMessage 错误信息

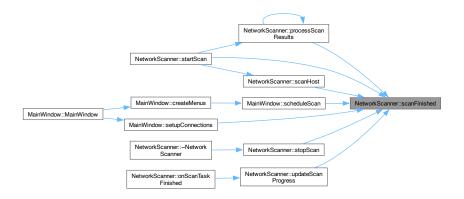


8.6.3.23 scanFinished

void NetworkScanner::scanFinished () [signal]

扫描完成信号

这是这个函数的调用关系图:



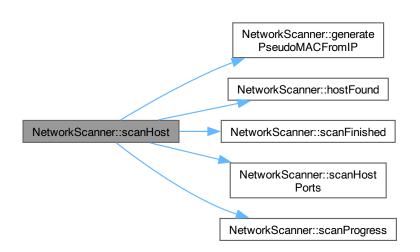
8.6.3.24 scanHost()

扫描单个主机

参数

address 主机地址

函数调用图:



这是这个函数的调用关系图:



8.6.3.25 scanHostPorts()

扫描主机端口

参数

hostInfo | 要更新的主机信息结构

这是这个函数的调用关系图:



8.6.3.26 scanProgress

扫描进度更新信号

参数

progress 进度百分比(0-100)



8.6.3.27 scanStarted

void NetworkScanner::scanStarted () [signal]

扫描开始信号

这是这个函数的调用关系图:



8.6.3.28 setCustomIPRange()

设置自定义IP范围

参数

start⇔ IP	起始IP地址
endIP	结束IP地址

函数调用图:



8.6.3.29 setCustomPortsToScan()

设置自定义端口扫描列表

参数

ports 要扫描的端口列表

8.6.3.30 setScanStrategy()

设置扫描策略

参数

mode 扫描模式

8.6.3.31 setScanTimeout()

设置扫描超时时间

参数

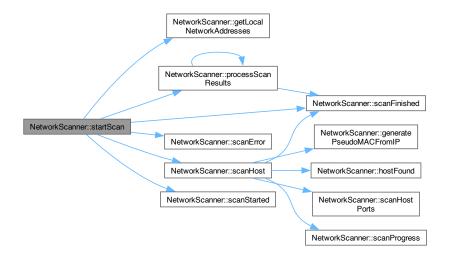
msecs	超时时间(毫秒)
msecs	超时时间 (毫秒)

8.6.3.32 startScan()

void NetworkScanner::startScan ()

开始扫描

函数调用图:



8.6.3.33 stopScan()

void NetworkScanner::stopScan ()

停止扫描

函数调用图:



这是这个函数的调用关系图:

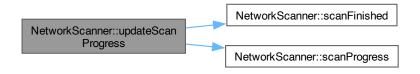


8.6.3.34 updateScanProgress

void NetworkScanner::updateScanProgress () [slot]

更新扫描进度

函数调用图:





8.6.4 类成员变量说明

8.6.4.1 m_activeHosts

QList<QHostAddress> NetworkScanner::m_activeHosts [private]

活跃主机列表

8.6.4.2 m_endIPRange

QHostAddress NetworkScanner::m_endIPRange [private]

结束IP地址

8.6.4.3 m_isScanning

bool NetworkScanner::m_isScanning [private]

是否正在扫描

8.6.4.4 m_macAddressCache

QMap<QString, QString> NetworkScanner::m_macAddressCache [private]

MAC地址缓存

8.6.4.5 m_mutex

QMutex NetworkScanner::m_mutex [private]

线程同步互斥锁

8.6.4.6 m_portsToScan

QList<int> NetworkScanner::m_portsToScan [private]

要扫描的端口列表

8.6.4.7 m_scanFutures

 ${\tt QList < QFuture < void > NetworkScanner:: m_scanFutures \quad [private]}$

并行扫描任务

8.6.4.8 m_scannedHosts

int NetworkScanner::m_scannedHosts [private]

已扫描主机数

8.6.4.9 m_scannedHostsList

QList<HostInfo> NetworkScanner::m_scannedHostsList [private]

扫描结果列表

8.6.4.10 m_scanStrategy

ScanStrategy NetworkScanner::m_scanStrategy [private]

扫描策略

8.6.4.11 m_scanTimeout

int NetworkScanner::m_scanTimeout [private]

扫描超时时间

8.6.4.12 m_startIPRange

QHostAddress NetworkScanner::m_startIPRange [private]

起始IP地址

8.6.4.13 m_threadPool

QThreadPool NetworkScanner::m_threadPool [private]

线程池

8.6.4.14 m_totalHosts

int NetworkScanner::m_totalHosts [private]

总主机数

8.6.4.15 m_useCustomRange

bool NetworkScanner::m_useCustomRange [private]

是否使用自定义IP范围

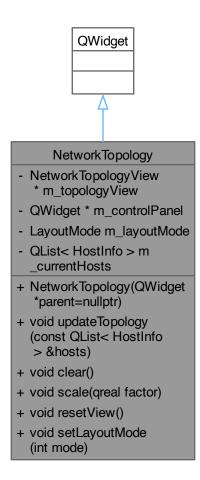
该类的文档由以下文件生成:

- · networkscanner.h
- build/NetScanner_autogen/EWIEGA46WW/moc_networkscanner.cpp
- NetScanner_autogen/JRIAJ772TK/moc_networkscanner.cpp
- networkscanner.cpp

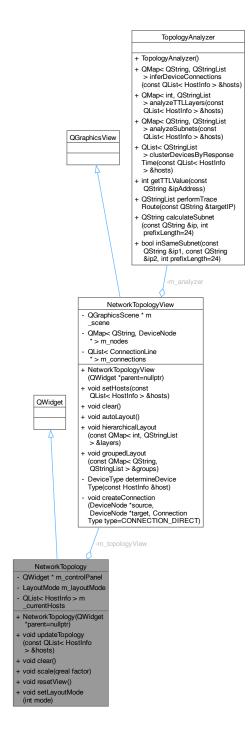
8.7 NetworkTopology类参考

#include <networktopology.h>

类 NetworkTopology 继承关系图:



NetworkTopology 的协作图:



信号

• void deviceSelected (const HostInfo &host)

Public 成员函数

NetworkTopology (QWidget *parent=nullptr)

- void updateTopology (const QList< HostInfo > &hosts)
- void clear ()
- void scale (greal factor)
- void resetView ()
- void setLayoutMode (int mode)

Private 类型

enum LayoutMode { LAYOUT_AUTO , LAYOUT_HIERARCHICAL , LAYOUT_GROUPED }

Private 属性

- NetworkTopologyView * m_topologyView
- QWidget * m_controlPanel
- LayoutMode m_layoutMode
- QList< HostInfo > m_currentHosts

8.7.1 成员枚举类型说明

8.7.1.1 LayoutMode

```
enum NetworkTopology::LayoutMode [private]
```

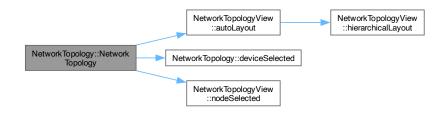
枚举值

LAYOUT_AUTO	
LAYOUT_HIERARCHICAL	
LAYOUT_GROUPED	

8.7.2 构造及析构函数说明

8.7.2.1 NetworkTopology()

函数调用图:



8.7.3 成员函数说明

8.7.3.1 clear()

```
void NetworkTopology::clear ()
```

8.7.3.2 deviceSelected

这是这个函数的调用关系图:



8.7.3.3 resetView()

```
void NetworkTopology::resetView ()
```

8.7.3.4 scale()

8.7.3.5 setLayoutMode()

```
void NetworkTopology::setLayoutMode (
    int mode)
```

函数调用图:



8.7.3.6 updateTopology()

这是这个函数的调用关系图:

NetworkTopology::setLayoutMode NetworkTopology::updateTopology

8.7.4 类成员变量说明

8.7.4.1 m_controlPanel

```
QWidget* NetworkTopology::m_controlPanel [private]
```

8.7.4.2 m_currentHosts

```
{\tt QList{<}HostInfo{>}\ NetworkTopology{::}m\_currentHosts} \quad [private]
```

8.7.4.3 m_layoutMode

```
LayoutMode NetworkTopology::m_layoutMode [private]
```

8.7.4.4 m_topologyView

NetworkTopologyView* NetworkTopology::m_topologyView [private]

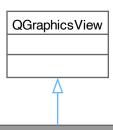
该类的文档由以下文件生成:

- networktopology.h
- build/NetScanner_autogen/EWIEGA46WW/moc_networktopology.cpp
- NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp
- networktopology.cpp

8.8 NetworkTopologyView类参考

#include <networktopology.h>

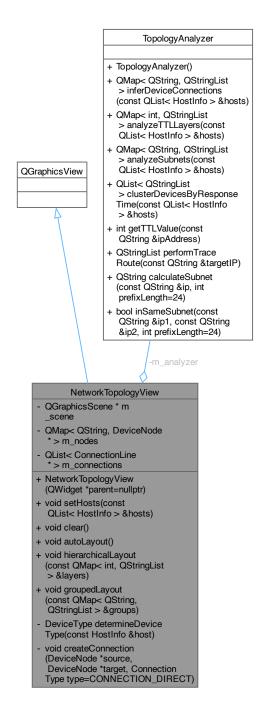
类 NetworkTopologyView 继承关系图:



NetworkTopologyView

- QGraphicsScene * m _scene
- QMap< QString, DeviceNode* > m_nodes
- QList< ConnectionLine* > m connections
- TopologyAnalyzer m _analyzer
- + NetworkTopologyView (QWidget *parent=nullptr)
- + void setHosts(const QList< HostInfo > &hosts)
- + void clear()
- + void autoLayout()
- + void hierarchicalLayout (const QMap< int, QStringList > &layers)
- + void groupedLayout (const QMap< QString, QStringList > &groups)
- DeviceType determineDevice Type(const HostInfo &host)
- void createConnection (DeviceNode *source, DeviceNode *target, Connection Type type=CONNECTION_DIRECT)

NetworkTopologyView 的协作图:



信号

void nodeSelected (const HostInfo &host)

Public 成员函数

NetworkTopologyView (QWidget *parent=nullptr)

- void setHosts (const QList< HostInfo > &hosts)
- void clear ()
- void autoLayout ()
- void hierarchicalLayout (const QMap< int, QStringList > &layers)
- void groupedLayout (const QMap< QString, QStringList > &groups)

Private 成员函数

- DeviceType determineDeviceType (const HostInfo &host)
- void createConnection (DeviceNode *source, DeviceNode *target, ConnectionType type=CONNECTION_DIRECT)

Private 属性

- QGraphicsScene * m_scene
- QMap< QString, DeviceNode * > m_nodes
- QList< ConnectionLine * > m_connections
- TopologyAnalyzer m_analyzer

8.8.1 构造及析构函数说明

8.8.1.1 NetworkTopologyView()

8.8.2 成员函数说明

8.8.2.1 autoLayout()

```
void NetworkTopologyView::autoLayout ()
函数调用图:
```

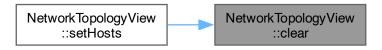




8.8.2.2 clear()

void NetworkTopologyView::clear ()

这是这个函数的调用关系图:

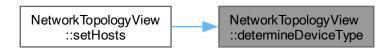


8.8.2.3 createConnection()

这是这个函数的调用关系图:



8.8.2.4 determineDeviceType()



8.8.2.5 groupedLayout()

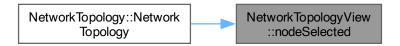
8.8.2.6 hierarchicalLayout()

这是这个函数的调用关系图:



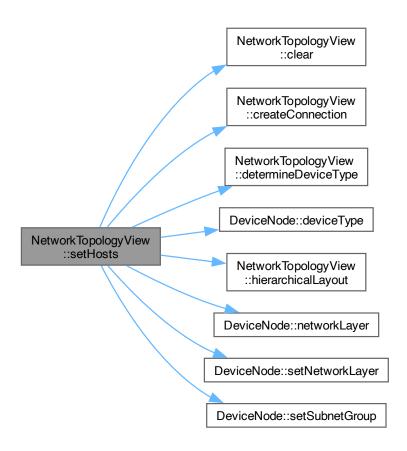
8.8.2.7 nodeSelected

这是这个函数的调用关系图:



8.8.2.8 setHosts()

函数调用图:



8.8.3 类成员变量说明

8.8.3.1 m_analyzer

TopologyAnalyzer NetworkTopologyView::m_analyzer [private]

8.8.3.2 m_connections

QList<ConnectionLine*> NetworkTopologyView::m_connections [private]

8.8.3.3 m_nodes

QMap<QString, DeviceNode*> NetworkTopologyView::m_nodes [private]

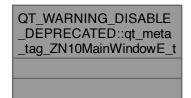
8.8.3.4 m_scene

QGraphicsScene* NetworkTopologyView::m_scene [private] 该类的文档由以下文件生成:

- · networktopology.h
- build/NetScanner_autogen/EWIEGA46WW/moc_networktopology.cpp
- NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp
- networktopology.cpp

8.9 QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10Main↔ WindowE_t结构体 参考

QT_WARNING_DISABLE_DEPRECATED::gt_meta_tag_ZN10MainWindowE_t 的协作图:

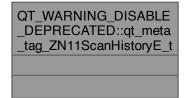


该结构体的文档由以下文件生成:

build/NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp

8.10 QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11Scan← HistoryE_t结构体 参考

QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11ScanHistoryE_t 的协作图:

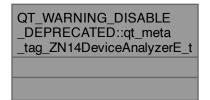


该结构体的文档由以下文件生成:

build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp

8.11 QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14Device← AnalyzerE_t结构体 参考

QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t 的协作图:

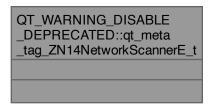


该结构体的文档由以下文件生成:

• build/NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp

8.12 QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14Network⊷ ScannerE_t结构体 参考

QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14NetworkScannerE_t 的协作图:

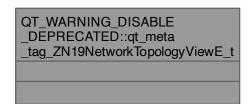


该结构体的文档由以下文件生成:

build/NetScanner_autogen/EWIEGA46WW/moc_networkscanner.cpp

8.13 QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19Network← TopologyViewE_t结构体 参考

QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19NetworkTopologyViewE_t 的协作图:



该结构体的文档由以下文件生成:

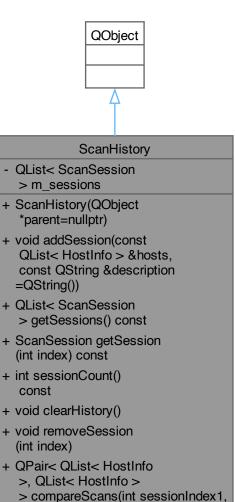
• build/NetScanner_autogen/EWIEGA46WW/moc_networktopology.cpp

8.14 ScanHistory类参考

#include <scanhistory.h>

104 类说明

类 ScanHistory 继承关系图:

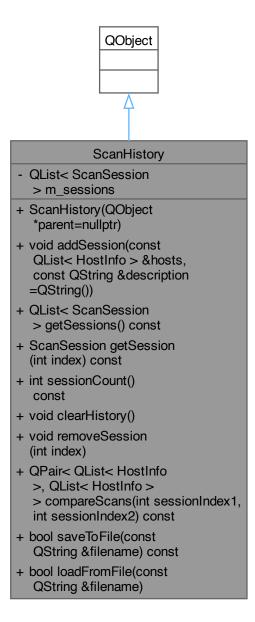


const

int sessionIndex2) const

+ bool saveToFile(const QString &filename) const + bool loadFromFile(const QString &filename)

ScanHistory 的协作图:



信号

• void historyChanged ()

Public 成员函数

- ScanHistory (QObject *parent=nullptr)
- void addSession (const QList< HostInfo > &hosts, const QString &description=QString())
- QList< ScanSession > getSessions () const

- · ScanSession getSession (int index) const
- int sessionCount () const
- void clearHistory ()
- void removeSession (int index)
- $\bullet \ \ \mathsf{QPair} < \mathsf{QList} < \mathsf{HostInfo} > , \ \mathsf{QList} < \mathsf{HostInfo} > > \mathsf{compareScans} \ (\mathsf{int} \ \mathsf{sessionIndex1}, \ \mathsf{int} \ \mathsf{sessionIndex2}) \ \mathsf{const} \\$
- bool saveToFile (const QString &filename) const
- bool loadFromFile (const QString &filename)

Private 属性

• QList< ScanSession > m_sessions

8.14.1 构造及析构函数说明

8.14.1.1 ScanHistory()

8.14.2 成员函数说明

8.14.2.1 addSession()

函数调用图:



8.14.2.2 clearHistory()

```
void ScanHistory::clearHistory ()
函数调用图:
```

ScanHistory::clearHistory ScanHistory::historyChanged

8.14.2.3 compareScans()

8.14.2.4 getSession()

8.14.2.5 getSessions()

```
QList< ScanSession > ScanHistory::getSessions () const [inline]
```

8.14.2.6 historyChanged

```
void ScanHistory::historyChanged () [signal]
```

这是这个函数的调用关系图:



8.14.2.7 loadFromFile()

函数调用图:



8.14.2.8 removeSession()

函数调用图:

ScanHistory::removeSession ScanHistory::historyChanged

8.14.2.9 saveToFile()

8.14.2.10 sessionCount()

```
int ScanHistory::sessionCount () const [inline]
```

8.14.3 类成员变量说明

8.14.3.1 m_sessions

```
QList<ScanSession> ScanHistory::m_sessions [private]
```

该类的文档由以下文件生成:

- · scanhistory.h
- build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp
- NetScanner_autogen/JRIAJ772TK/moc_scanhistory.cpp
- scanhistory.cpp

8.15 ScanSession结构体参考

#include <scanhistory.h>

ScanSession 的协作图:

ScanSession

- + QDateTime scanTime
- + QString description
- + QList< HostInfo > hosts
- + int totalHosts() const
- + int reachableHosts () const
- + int unreachableHosts () const
- + QMap< int, int > portDistribution () const

Public 成员函数

- int totalHosts () const
- int reachableHosts () const
- int unreachableHosts () const
- QMap< int, int > portDistribution () const

Public 属性

- QDateTime scanTime
- QString description
- QList< HostInfo > hosts

8.15.1 成员函数说明

8.15.1.1 portDistribution()

QMap< int, int > ScanSession::portDistribution () const

8.15.1.2 reachableHosts()

int ScanSession::reachableHosts () const

这是这个函数的调用关系图:



8.15.1.3 totalHosts()

int ScanSession::totalHosts () const [inline]

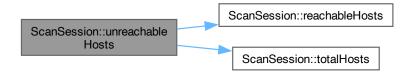
这是这个函数的调用关系图:



8.15.1.4 unreachableHosts()

int ScanSession::unreachableHosts () const [inline]

函数调用图:



8.15.2 类成员变量说明

8.15.2.1 description

QString ScanSession::description

8.15.2.2 hosts

QList<HostInfo> ScanSession::hosts

8.15.2.3 scanTime

QDateTime ScanSession::scanTime

该结构体的文档由以下文件生成:

- · scanhistory.h
- · scanhistory.cpp

8.16 ScanStrategy类 参考

扫描策略类

#include <networkscanner.h>

ScanStrategy 的协作图:

ScanStrategy

- ScanMode m_mode
- QMap< QString, intm_hostResponseTimes
- + ScanStrategy(ScanMode mode=STANDARD_SCAN)
- + QList< int > getPortsToScan () const
- + int getScanTimeout (const QString &ip) const
- + int getMaxParallelTasks () const
- + void updateHostResponseTime (const QString &ip, int responseTime)
- + ScanMode getMode() const
- + void setMode(ScanMode mode)

Public 类型

enum ScanMode { QUICK_SCAN, STANDARD_SCAN, DEEP_SCAN }
 扫描模式枚举

Public 成员函数

ScanStrategy (ScanMode mode=STANDARD_SCAN)

构造函数

• QList< int > getPortsToScan () const

获取要扫描的端口列表

• int getScanTimeout (const QString &ip) const

获取扫描超时时间

• int getMaxParallelTasks () const

获取最大并行任务数

• void updateHostResponseTime (const QString &ip, int responseTime)

更新主机响应时间记录

• ScanMode getMode () const

获取当前扫描模式

void setMode (ScanMode mode)

设置扫描模式

Private 属性

• ScanMode m_mode

当前扫描模式

QMap< QString, int > m_hostResponseTimes

IP地址 -> 响应时间映射

8.16.1 详细描述

扫描策略类

定义不同的扫描模式和参数,如快速扫描、标准扫描和深度扫描

8.16.2 成员枚举类型说明

8.16.2.1 ScanMode

enum ScanStrategy::ScanMode

扫描模式枚举

枚举值

QUICK_SCAN	仅检测主机存活
STANDARD_SCAN	扫描常用端口
DEEP_SCAN	全面端口扫描

8.16.3 构造及析构函数说明

8.16.3.1 ScanStrategy()

构造函数

参数

mode 扫描模式,默认为标准扫描

8.16.4 成员函数说明

8.16.4.1 getMaxParallelTasks()

```
int ScanStrategy::getMaxParallelTasks () const
获取最大并行任务数
```

返回

并行任务数量

8.16.4.2 getMode()

```
ScanMode ScanStrategy::getMode () const [inline] 获取当前扫描模式
```

返回

扫描模式

8.16.4.3 getPortsToScan()

```
QList< int > ScanStrategy::getPortsToScan () const
```

获取要扫描的端口列表

返回

端口号列表

8.16.4.4 getScanTimeout()

获取扫描超时时间

参数

ip 目标IP地址

返回

超时时间 (毫秒)

8.16.4.5 setMode()

设置扫描模式

参数

mode 要设置的扫描模式

8.16.4.6 updateHostResponseTime()

更新主机响应时间记录

参数

ip	主机IP地址
responseTime	响应时间 (毫秒)

8.16.5 类成员变量说明

8.16.5.1 m_hostResponseTimes

```
QMap<QString, int> ScanStrategy::m_hostResponseTimes [private] 
IP地址->响应时间映射
```

8.16.5.2 m_mode

```
ScanMode ScanStrategy::m_mode [private]
```

当前扫描模式

该类的文档由以下文件生成:

- networkscanner.h
- networkscanner.cpp

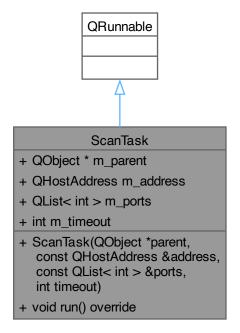
8.17 ScanTask类 参考 115

8.17 ScanTask类 参考

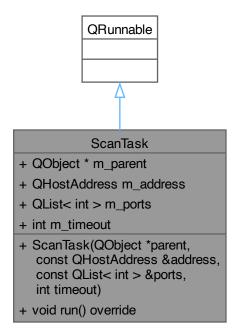
扫描任务类

#include <networkscanner.h>

类 ScanTask 继承关系图:



ScanTask 的协作图:



Public 成员函数

ScanTask (QObject *parent, const QHostAddress &address, const QList< int > &ports, int timeout)
 构造函数

• void run () override 执行扫描任务

Public 属性

QObject * m_parent

父对象指针

• QHostAddress m_address

扫描地址

QList< int > m_ports
 扫描端口列表

• int m_timeout 超时时间

8.17.1 详细描述

扫描任务类

用于并行执行的单个主机扫描任务

8.17 ScanTask类 参考 117

8.17.2 构造及析构函数说明

8.17.2.1 ScanTask()

构造函数

参数

parent	父对象
address	要扫描的地址
ports	要扫描的端口列表
timeout	连接超时时间 (毫秒)

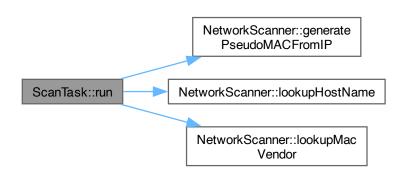
8.17.3 成员函数说明

8.17.3.1 run()

```
void ScanTask::run () [override]
```

执行扫描任务

实现QRunnable的抽象方法 函数调用图:



8.17.4 类成员变量说明

8.17.4.1 m_address

QHostAddress ScanTask::m_address

扫描地址

8.17.4.2 m_parent

QObject* ScanTask::m_parent

父对象指针

8.17.4.3 m_ports

QList<int> ScanTask::m_ports

扫描端口列表

8.17.4.4 m_timeout

int ScanTask::m_timeout

超时时间

该类的文档由以下文件生成:

- networkscanner.h
- networkscanner.cpp

8.18 TopologyAnalyzer类参考

#include <networktopology.h>

TopologyAnalyzer 的协作图:

TopologyAnalyzer

- + TopologyAnalyzer()
- + QMap< QString, QStringList
 > inferDeviceConnections
 (const QList< HostInfo > &hosts)
- + QMap< int, QStringList> analyzeTTLLayers(const QList< HostInfo > &hosts)
- + QMap< QString, QStringList> analyzeSubnets(constQList< HostInfo > &hosts)
- + QList< QStringList
 > clusterDevicesByResponse
 Time(const QList< HostInfo
 > &hosts)
- + int getTTLValue(const QString &ipAddress)
- + QStringList performTrace Route(const QString &targetIP)
- + QString calculateSubnet (const QString &ip, int prefixLength=24)
- + bool inSameSubnet(const QString &ip1, const QString &ip2, int prefixLength=24)

Public 成员函数

- TopologyAnalyzer ()
- QMap < QString, QStringList > inferDeviceConnections (const QList < HostInfo > &hosts)
- QMap< int, QStringList > analyzeTTLLayers (const QList< HostInfo > &hosts)
- QMap< QString, QStringList > analyzeSubnets (const QList< HostInfo > &hosts)
- $\bullet \ \, \mathsf{QList} < \mathsf{QStringList} > \mathsf{clusterDevicesByResponseTime} \ \, (\mathsf{const} \ \mathsf{QList} < \mathsf{HostInfo} > \& \mathsf{hosts}) \\$
- int getTTLValue (const QString &ipAddress)
- QStringList performTraceRoute (const QString &targetIP)
- QString calculateSubnet (const QString &ip, int prefixLength=24)
- bool inSameSubnet (const QString &ip1, const QString &ip2, int prefixLength=24)

8.18.1 构造及析构函数说明

8.18.1.1 TopologyAnalyzer()

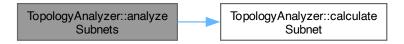
TopologyAnalyzer::TopologyAnalyzer ()

8.18.2 成员函数说明

8.18.2.1 analyzeSubnets()

```
QMap< QString, QStringList > TopologyAnalyzer::analyzeSubnets ( const\ QList < \ HostInfo > \&\ hosts)
```

函数调用图:



这是这个函数的调用关系图:



8.18.2.2 analyzeTTLLayers()

```
QMap< int, QStringList > TopologyAnalyzer::analyzeTTLLayers ( const\ QList < \ HostInfo > \&\ hosts)
```

函数调用图:

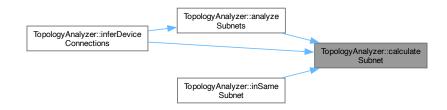


这是这个函数的调用关系图:



8.18.2.3 calculateSubnet()

这是这个函数的调用关系图:



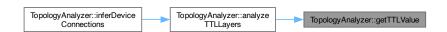
8.18.2.4 clusterDevicesByResponseTime()

```
QList< QStringList > TopologyAnalyzer::clusterDevicesByResponseTime ( const QList< HostInfo > & hosts)
```

8.18.2.5 getTTLValue()

```
int TopologyAnalyzer::getTTLValue ( {\tt const\ QString\ \&\ ipAddress)}
```

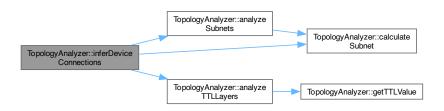
这是这个函数的调用关系图:



8.18.2.6 inferDeviceConnections()

```
QMap< QString, QStringList > TopologyAnalyzer::inferDeviceConnections ( const QList< HostInfo > & hosts)
```

函数调用图:



8.18.2.7 inSameSubnet()

函数调用图:

```
TopologyAnalyzer::inSame Subnet TopologyAnalyzer::calculate Subnet
```

8.18.2.8 performTraceRoute()

```
QStringList TopologyAnalyzer::performTraceRoute ( {\tt const~QString~\&~targetIP})
```

该类的文档由以下文件生成:

- networktopology.h
- networktopology.cpp

Chapter 9

文件说明

9.1 build/CMakeFiles/3.31.5/CompilerIdCXX/CMakeCXXCompilerId.cpp 文件参考

宏定义

- #define __has_include(x)
- #define COMPILER_ID ""
- #define STRINGIFY_HELPER(X)
- #define STRINGIFY(X)
- #define PLATFORM_ID
- #define ARCHITECTURE_ID
- #define DEC(n)
- #define HEX(n)
- #define CXX_STD_98 199711L
- #define CXX_STD_11 201103L
- #define CXX_STD_14 201402L
- #define CXX_STD_17 201703L
- #define CXX_STD_20 202002L
- #define CXX_STD_23 202302L
- #define CXX_STD __cplusplus

函数

• int main (int argc, char *argv[])

变量

- char const * info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
- char const * info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
- char const * info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
- const char * info_language_standard_default
- const char * info_language_extensions_default

9.1.1 宏定义说明

9.1.1.1 __has_include

```
#define __has_include(
     x)
```

值:

0

9.1.1.2 ARCHITECTURE_ID

```
#define ARCHITECTURE_ID
```

9.1.1.3 COMPILER_ID

```
#define COMPILER_ID ""
```

9.1.1.4 CXX_STD

```
#define CXX_STD __cplusplus
```

9.1.1.5 CXX_STD_11

#define CXX_STD_11 201103L

9.1.1.6 CXX_STD_14

#define CXX_STD_14 201402L

9.1.1.7 CXX_STD_17

#define CXX_STD_17 201703L

9.1.1.8 CXX_STD_20

#define CXX_STD_20 202002L

9.1.1.9 CXX_STD_23

#define CXX_STD_23 202302L

9.1.1.10 CXX_STD_98

```
#define CXX_STD_98 199711L
```

9.1.1.11 DEC

9.1.1.12 HEX

```
#define HEX(

n)

信:

('0' + ((n)>>28 & 0xF)), \
('0' + ((n)>>24 & 0xF)), \
('0' + ((n)>>20 & 0xF)), \
('0' + ((n)>>16 & 0xF)), \
('0' + ((n)>>12 & 0xF)), \
('0' + ((n)>>8 & 0xF)), \
('0' + ((n)>>4 & 0xF)), \
('0' + ((n)>>4 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
('0' + ((n)>>8 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
('0' + ((n)>>6 & 0xF)), \
('0' + ((n)>>6 & 0xF))
```

9.1.1.13 PLATFORM_ID

```
#define PLATFORM_ID
```

9.1.1.14 STRINGIFY

值:

STRINGIFY_HELPER(X)

9.1.1.15 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER(X)

值:
```

9.1.2 函数说明

9.1.2.1 main()

```
int main (
          int argc,
          char * argv[])
```

9.1.3 变量说明

9.1.3.1 info_arch

```
char const* info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
```

9.1.3.2 info_compiler

```
char const* info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
```

9.1.3.3 info_language_extensions_default

```
const char* info_language_extensions_default
初始值:
= "INFO" ":" "extensions_default["
```

9.1.3.4 info_language_standard_default

```
const char* info_language_standard_default
初始值:
= "INFO" ":" "standard_default["
```

```
"98"
|"
```

"OFF"

"]"

9.1.3.5 info_platform

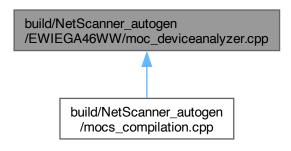
```
char const* info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
```

- 9.2 build/CMakeFiles/NetScanner.dir/deviceanalyzer.cpp.o.d 文件参考
- 9.3 build/CMakeFiles/NetScanner.dir/main.cpp.o.d 文件参考
- 9.4 build/CMakeFiles/NetScanner.dir/mainwindow.cpp.o.d 文件参考
- 9.5 build/CMakeFiles/NetScanner.dir/NetScanner_autogen/mocs_← compilation.cpp.o.d 文件参考
- 9.6 build/CMakeFiles/NetScanner.dir/networkscanner.cpp.o.d 文件参考
- 9.7 build/CMakeFiles/NetScanner.dir/networktopology.cpp.o.d 文件参考
- 9.8 build/CMakeFiles/NetScanner.dir/scanhistory.cpp.o.d 文件参考
- 9.9 build/NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp 文件参考

```
#include "../../deviceanalyzer.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_deviceanalyzer.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.9.1 宏定义说明

9.9.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.10 moc_deviceanalyzer.cpp

浏览该文件的文档.

```
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'deviceanalyzer.h' doesn't include <QObject>."
00020 #elif O_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It"
00022 #error "cannot be used with the include files from this version of Qt."
00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef O_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 QT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace {
00034 struct qt_meta_tag_ZN14DeviceAnalyzerE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      DeviceAnalyzer::qt_create_metaobjectdata<qt_meta_tag_ZN14DeviceAnalyzerE_t>()
00038 {
00039
          namespace QMC = QtMocConstants;
          QtMocHelpers::StringRefStorage qt_stringData {
00040
00041
              "DeviceAnalyzer"
              "analysisCompleted"
00042
00043
00044
          };
00045
00046
          QtMocHelpers::UintData qt_methods {
00047
              // Signal 'analysisCompleted'
00048
              QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00049
00050
          OtMocHelpers::UintData gt_properties {
00051
00052
          QtMocHelpers::UintData qt_enums {
00053
          };
          return QtMocHelpers::metaObjectData<DeviceAnalyzer,
00054
      qt_meta_tag_ZN14DeviceAnalyzerE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00055
                  qt_methods, qt_properties, qt_enums);
00056 }
00057 O_CONSTINIT const QMetaObject DeviceAnalyzer::staticMetaObject = { {
          QMetaObject::SuperData::link<QWidget::staticMetaObject>(),
00058
00059
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.stringdata,
00060
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.data,
00061
          qt_static_metacall,
00062
          nullptr,
00063
          gt_staticMetaObjectRelocatingContent<gt_meta_tag_ZN14DeviceAnalyzerE_t>.metaTypes.
00064
          nullptr
00065 } };
00066
00067 void DeviceAnalyzer::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00068 {
00069
          auto *_t = static_cast<DeviceAnalyzer *>(_o);
00070
          if (_c == QMetaObject::InvokeMetaMethod) {
00071
              switch (_id) {
00072
              case 0: _t->analysisCompleted(); break;
00073
              default: ;
00074
00075
00076
          if (_c == QMetaObject::IndexOfMethod) {
              if (QtMocHelpers::indexOfMethod<void (DeviceAnalyzer::*)()>(_a,
      &DeviceAnalyzer::analysisCompleted, 0))
00078
                  return;
00079
          }
00080 }
00081
00082 const QMetaObject *DeviceAnalyzer::metaObject() const
00083 {
00084
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00085 }
00086
00087 void *DeviceAnalyzer::qt_metacast(const char *_clname)
00088 {
00089
          if (!-clname) return nullptr;
00090
          if (!strcmp(.clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.strings))
00091
              return static cast<void*>(this):
00092
          return OWidget::qt_metacast(_clname);
00093 }
00094
00095 int DeviceAnalyzer::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00096 {
00097
          _id = QWidget::qt_metacall(_c, _id, _a);
00098
          if (_id < 0)</pre>
00099
              return _id:
```

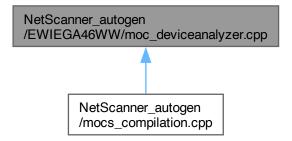
```
if (_c == QMetaObject::InvokeMetaMethod) {
00101
              if (_id < 1)</pre>
              qt_static_metacall(this, _c, _id, _a);
_id -= 1;
00102
00103
00104
00105
           if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00106
              if (_id < 1)</pre>
00107
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00108
               _id -= 1;
00109
           return _id;
00110
00111 }
00112
00113 // SIGNAL 0
00114 void DeviceAnalyzer::analysisCompleted()
00115 {
          QMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00116
00117 }
00118 QT_WARNING_POP
```

9.11 NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp 文件 参考

```
#include "../../deviceanalyzer.h" #include <QtCore/qmetatype.h> #include <QtCore/qtmochelpers.h> #include <memory> #include <QtCore/qxptype_traits.h> moc_deviceanalyzer.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

#define Q_CONSTINIT

9.11.1 宏定义说明

9.11.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.12 moc_deviceanalyzer.cpp

浏览该文件的文档.

```
00002 ** Meta object code from reading C++ file 'deviceanalyzer.h'
00003 **
00004 ** Created by: The Qt Meta Object Compiler version 69 (Qt 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00009 #include "../../deviceanalyzer.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <QtCore/qtmochelpers.h>
00013
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'deviceanalyzer.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It"
00022 #error "cannot be used with the include files from this version of Qt."
00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 OT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace {
00034 struct qt_meta_tag_ZN14DeviceAnalyzerE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      DeviceAnalyzer::qt_create_metaobjectdata<qt_meta_tag_ZN14DeviceAnalyzerE_t>()
00038 {
00039
          namespace QMC = QtMocConstants;
00040
          QtMocHelpers::StringRefStorage qt_stringData {
00041
               "DeviceAnalyzer",
              "analysisCompleted",
00042
00043
00044
          };
00045
00046
          QtMocHelpers::UintData qt_methods {
00047
              // Signal 'analysisCompleted'
00048
              QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00049
00050
          QtMocHelpers::UintData qt_properties {
00051
```

```
00052
          QtMocHelpers::UintData qt_enums {
00053
00054
          return QtMocHelpers::metaObjectData<DeviceAnalyzer,
      qt_meta_tag_ZN14DeviceAnalyzerE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00055
                  qt_methods, qt_properties, qt_enums);
00056 }
00057 Q_CONSTINIT const QMetaObject DeviceAnalyzer::staticMetaObject = { {
00058
          QMetaObject::SuperData::link<QWidget::staticMetaObject>(),
00059
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.stringdata,
00060
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.data,
00061
          qt_static_metacall,
00062
          nullptr.
00063
          qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.metaTypes,
00064
          nullptr
00065 } };
00066
00067 void DeviceAnalyzer::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00068 {
00069
          auto *_t = static_cast<DeviceAnalyzer *>(_o);
00070
          if (_c == QMetaObject::InvokeMetaMethod) {
00071
              switch (_id) {
00072
              case 0: _t->analysisCompleted(); break;
00073
              default: ;
00074
00075
00076
          if (_c == QMetaObject::IndexOfMethod) {
00077
              if (QtMocHelpers::indexOfMethod<void (DeviceAnalyzer::*)()>(_a,
     &DeviceAnalyzer::analysisCompleted, 0))
00078
                  return;
00079
00080 }
00081
00082 const QMetaObject *DeviceAnalyzer::metaObject() const
00083 {
00084
          return QObject::d.ptr->metaObject ? QObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00085 }
00086
00087 void *DeviceAnalyzer::qt_metacast(const char *_clname)
00088 {
00089
          if (!_clname) return nullptr;
00090
          if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.strings))
00091
              return static_cast<void*>(this);
00092
          return QWidget::qt_metacast(_clname);
00093 }
00094
00095 int DeviceAnalyzer::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00096 {
          _id = QWidget::qt_metacall(_c, _id, _a);
00097
00098
          if (_id < 0)
00099
              return _id:
          if (_c == QMetaObject::InvokeMetaMethod) {
00100
00101
              if (_id < 1)
00102
                  qt_static_metacall(this, _c, _id, _a);
              _id -= 1;
00103
00104
00105
          if (_c == OMetaObject::RegisterMethodArgumentMetaType) {
              if (_id < 1)</pre>
00107
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00108
              _id -= 1;
00109
00110
          return id:
00111 }
00112
00113 // SIGNAL 0
00114 void DeviceAnalyzer::analysisCompleted()
00115 {
00116
          QMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00117 }
00118 QT_WARNING_POP
```

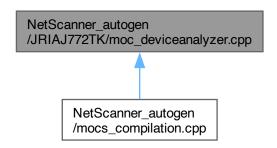
9.13 NetScanner_autogen/JRIAJ772TK/moc_deviceanalyzer.cpp 文件参

```
#include "../../deviceanalyzer.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
```

#include <QtCore/qxptype_traits.h>moc_deviceanalyzer.cpp 的引用(Include)关系图:



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14DeviceAnalyzerE_t

命名空间

• namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.13.1 宏定义说明

9.13.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.14 moc_deviceanalyzer.cpp

浏览该文件的文档.

```
00002 ** Meta object code from reading C++ file 'deviceanalyzer.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00008
00009 #include "../../deviceanalyzer.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <OtCore/gtmochelpers.h>
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'deviceanalyzer.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It" 00022 #error "cannot be used with the include files from this version of Qt." 00023 #error "(The moc has changed too much.)"
00024 #endif
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 QT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace \{
00034 struct qt_meta_tag_ZN14DeviceAnalyzerE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      DeviceAnalyzer::qt_create_metaobjectdata<qt_meta_tag_ZN14DeviceAnalyzerE_t>()
00038 {
00039
           namespace QMC = QtMocConstants;
00040
           QtMocHelpers::StringRefStorage qt_stringData {
00041
               00042
               "analysisCompleted",
00043
00044
00045
           QtMocHelpers::UintData qt_methods {
    // Signal 'analysisCompleted'
00046
00047
00048
               QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00049
00050
           QtMocHelpers::UintData qt_properties {
00051
00052
           QtMocHelpers::UintData qt_enums {
00053
           return QtMocHelpers::metaObjectData<DeviceAnalyzer,
00054
      qt_meta_tag_ZN14DeviceAnalyzerE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00055
                   qt_methods, qt_properties, qt_enums);
00056 }
00057 Q_CONSTINIT const QMetaObject DeviceAnalyzer::staticMetaObject = { {
00058
          QMetaObject::SuperData::link<QWidget::staticMetaObject>(),
           qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.stringdata,
00059
00060
           qt_staticMetaObjectStaticContent<qt_meta_taq_ZN14DeviceAnalyzerE_t>.data,
00061
           qt_static_metacall,
00062
           nullptr,
00063
           qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.metaTypes,
00064
          nullptr
00065 } };
00066
00067 void DeviceAnalyzer::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00068 {
00069
           auto *_t = static_cast<DeviceAnalyzer *>(_o);
00070
           if (_c == QMetaObject::InvokeMetaMethod) {
00071
               switch (_id) {
case 0: _t->analysisCompleted(); break;
00072
00073
               default: ;
00074
00075
00076
           if (_c == QMetaObject::IndexOfMethod) {
               if (QtMocHelpers::indexOfMethod<void (DeviceAnalyzer::*)()>(_a,
00077
      &DeviceAnalyzer::analysisCompleted, 0))
                   return;
00079
```

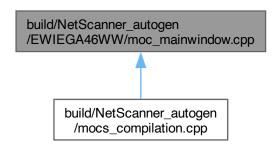
```
00080 }
00081
00082 const QMetaObject *DeviceAnalyzer::metaObject() const
00083 {
00084
          return OObject::d.ptr->metaObject ? OObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00085 }
00086
00087 void *DeviceAnalyzer::qt_metacast(const char *_clname)
00088 {
00089
          if (!_clname) return nullptr;
          if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14DeviceAnalyzerE_t>.strings))
00090
00091
              return static_cast<void*>(this);
00092
          return QWidget::qt_metacast(_clname);
00093 }
00094
00095 int DeviceAnalyzer::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00096 {
          _id = QWidget::qt_metacall(_c, _id, _a);
00097
          if (_id < 0)
00098
00099
              return _id;
00100
          if (_c == QMetaObject::InvokeMetaMethod) {
00101
             if (_id < 1)</pre>
00102
                  qt_static_metacall(this, _c, _id, _a);
             _id -= 1;
00103
00104
         if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00105
00106
              if (_id < 1)</pre>
00107
                  *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
              _id -= 1;
00108
00109
00110
          return _id:
00111 }
00112
00113 // SIGNAL 0
00114 void DeviceAnalyzer::analysisCompleted()
00115 {
00116
          OMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00118 QT_WARNING_POP
```

- 9.15 build/NetScanner_autogen/EWIEGA46WW/moc⊸ deviceanalyzer.cpp.d 文件参考
- 9.16 NetScanner_autogen/EWIEGA46WW/moc_deviceanalyzer.cpp.d 文件参考
- 9.17 NetScanner_autogen/JRIAJ772TK/moc_deviceanalyzer.cpp.d 文件 参考
- 9.18 build/NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp 文 件参考

```
#include "../../mainwindow.h"
#include <QtGui/qtextcursor.h>
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_mainwindow.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10MainWindowE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

#define Q_CONSTINIT

9.18.1 宏定义说明

9.18.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.19 moc_mainwindow.cpp

浏览该文件的文档.

```
00016
00017
00018 #include <QtCore/qxptype_traits.h>
00019 #if !defined(Q_MOC_OUTPUT_REVISION)
00020 #error "The header file 'mainwindow.h' doesn't include <QObject>."
00021 #elif Q_MOC_OUTPUT_REVISION != 69
00022 #error "This file was generated using the moc from 6.9.0. It"
00023 \#error "cannot be used with the include files from this version of Qt." 00024 \#error "(The moc has changed too much.)"
00025 #endif
00026
00027 #ifndef O_CONSTINIT
00028 #define Q_CONSTINIT
00029 #endif
00030
00031 QT_WARNING_PUSH
00032 OT WARNING DISABLE DEPRECATED
00033 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00034 namespace {
00035 struct qt_meta_tag_ZN10MainWindowE_t {};
00036 } // unnamed namespace
00037
00038 template <> constexpr inline auto MainWindow::qt_create_metaobjectdata<qt_meta_tag_ZN10MainWindowE_t>()
00039 {
00040
          namespace QMC = QtMocConstants;
          QtMocHelpers::StringRefStorage qt_stringData {
00041
00042
               "MainWindow",
               "startScan",
00043
00044
               "stopScan",
00045
00046
               "onHostFound",
00047
               "HostInfo",
00048
               "host",
00049
               "onScanStarted",
00050
               "onScanFinished",
               "onScanProgress",
00051
00052
               "progress",
00053
               "onScanError",
00054
               "errorMessage",
               "saveResults",
"clearResults",
00055
00056
               "showSettings"
00057
00058
               "applySettings",
00059
               "showAbout",
00060
               "showHostDetails",
00061
               "row",
00062
               "column".
               "exportToCSV",
00063
               "togglePortScanOptions",
00064
               "checked",
00065
00066
               "toggleRangeOptions",
00067
               "showTopologyView",
00068
               "showStatisticsView",
00069
               "showHistoryView",
00070
               "generateSecurityReport",
00071
               "saveTopologyImage",
00072
               "toggleDarkMode",
00073
               "enable".
00074
               "compareScanResults",
00075
               "scheduleScan",
               "saveHistoryToFile",
00076
00077
               "loadHistoryFromFile"
00078
               "updateNetworkTopology",
00079
               "refreshTopology",
00080
               "filterResults",
00081
               "clearFilters",
00082
               "onThemeChanged"
00083
          };
00084
          QtMocHelpers::UintData qt_methods {
00086
               // Slot 'startScan'
00087
               QtMocHelpers::SlotData<void()>(1, 2, QMC::AccessPrivate, QMetaType::Void),
00088
               // Slot 'stopScan'
               QtMocHelpers::SlotData<void()>(3, 2, QMC::AccessPrivate, QMetaType::Void),
00089
00090
               // Slot 'onHostFound'
00091
               QtMocHelpers::SlotData<void(const HostInfo &)>(4, 2, QMC::AccessPrivate, QMetaType::Void, {{
00092
                   { 0x80000000 | 5, 6 },
00093
               // Slot 'onScanStarted'
00094
00095
               QtMocHelpers::SlotData<void()>(7, 2, QMC::AccessPrivate, QMetaType::Void),
               // Slot 'onScanFinished'
00096
00097
               QtMocHelpers::SlotData<void()>(8, 2, QMC::AccessPrivate, QMetaType::Void),
00098
                // Slot 'onScanProgress'
00099
               QtMocHelpers::SlotData<void(int)>(9, 2, QMC::AccessPrivate, QMetaType::Void, {{
00100
                   { QMetaType::Int, 10 },
               }}),
// Slot 'onScanError'
00101
00102
```

```
QtMocHelpers::SlotData<void(const QString &)>(11, 2, QMC::AccessPrivate, QMetaType::Void, {{
00104
                  { QMetaType::QString, 12 },
00105
              }}),
              // Slot 'saveResults'
00106
              QtMocHelpers::SlotData<void()>(13, 2, QMC::AccessPrivate, QMetaType::Void),
00107
00108
              // Slot
                       clearResults
00109
              QtMocHelpers::SlotData<void()>(14, 2, QMC::AccessPrivate, QMetaType::Void),
00110
00111
              QtMocHelpers::SlotData<void()>(15, 2, QMC::AccessPrivate, QMetaType::Void),
00112
              // Slot 'applySettings'
              QtMocHelpers::SlotData<void()>(16, 2, QMC::AccessPrivate, QMetaType::Void),
00113
              // Slot 'showAbout'
00114
00115
              QtMocHelpers::SlotData<void()>(17, 2, QMC::AccessPrivate, QMetaType::Void),
00116
              // Slot 'showHostDetails'
00117
              { QMetaType::Int, 19 }, { QMetaType::Int, 20 },
00118
              }}),
// Slot 'exportToCSV'
00119
00120
00121
              QtMocHelpers::SlotData<void()>(21, 2, QMC::AccessPrivate, QMetaType::Void),
00122
              // Slot 'togglePortScanOptions'
               \texttt{QtMocHelpers::} SlotData< \texttt{void(bool)} > (22, 2, QMC:: \texttt{AccessPrivate, QMetaType::} Void, \{ \{ \} \} 
00123
                  { QMetaType::Bool, 23 },
00124
00125
              }}),
              // Slot 'toggleRangeOptions'
00126
00127
              QtMocHelpers::SlotData<void(bool)>(24, 2, QMC::AccessPrivate, QMetaType::Void, {{
                  { QMetaType::Bool, 23 },
00128
00129
00130
               // Slot 'showTopologyView'
00131
              QtMocHelpers::SlotData<void()>(25, 2, QMC::AccessPrivate, QMetaType::Void),
00132
              // Slot 'showStatisticsView'
00133
              QtMocHelpers::SlotData<void()>(26, 2, QMC::AccessPrivate, QMetaType::Void),
00134
                       showHistoryView'
              // Slot
00135
              QtMocHelpers::SlotData<void()>(27, 2, QMC::AccessPrivate, QMetaType::Void),
00136
              // Slot 'generateSecurityReport'
00137
              QtMocHelpers::SlotData<void()>(28, 2, QMC::AccessPrivate, QMetaType::Void),
00138
              // Slot 'saveTopologyImage'
              OtMocHelpers::SlotData<void()>(29, 2, OMC::AccessPrivate, OMetaType::Void),
00139
              // Slot 'toggleDarkMode'
00141
              QtMocHelpers::SlotData<void(bool)>(30, 2, QMC::AccessPrivate, QMetaType::Void, {{
00142
                  { QMetaType::Bool, 31 },
00143
              }),
              // Slot 'compareScanResults'
00144
              QtMocHelpers::SlotData<void()>(32, 2, QMC::AccessPrivate, QMetaType::Void),
00145
00146
              // Slot
                      'scheduleScan
00147
              QtMocHelpers::SlotData<void()>(33, 2, QMC::AccessPrivate, QMetaType::Void),
00148
              // Slot 'saveHistoryToFile'
00149
              QtMocHelpers::SlotData<void()>(34, 2, QMC::AccessPrivate, QMetaType::Void),
00150
              // Slot 'loadHistoryFromFile'
              QtMocHelpers::SlotData<void()>(35, 2, QMC::AccessPrivate, QMetaType::Void),
00151
              // Slot 'updateNetworkTopology
00152
00153
              QtMocHelpers::SlotData<void()>(36, 2, QMC::AccessPrivate, QMetaType::Void),
00154
              // Slot 'refreshTopology'
00155
              QtMocHelpers::SlotData<void()>(37, 2, QMC::AccessPrivate, QMetaType::Void),
00156
              // Slot 'filterResults'
              QtMocHelpers::SlotData<void()>(38, 2, QMC::AccessPrivate, QMetaType::Void),
00157
              // Slot 'clearFilters'
00158
00159
              QtMocHelpers::SlotData<void()>(39, 2, QMC::AccessPrivate, QMetaType::Void),
00160
               / Slot 'onThemeChanged'
00161
              QtMocHelpers::SlotData<void()>(40, 2, QMC::AccessPrivate, QMetaType::Void),
00162
00163
          QtMocHelpers::UintData qt_properties {
00164
00165
          QtMocHelpers::UintData qt_enums {
00166
          return QtMocHelpers::metaObjectData<MainWindow,
00167
     qt_meta_tag_ZN10MainWindowE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00168
                  qt_methods, qt_properties, qt_enums);
00169 }
00170 Q_CONSTINIT const QMetaObject MainWindow::staticMetaObject = { {
          QMetaObject::SuperData::link<QMainWindow::staticMetaObject>(),
00172
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN10MainWindowE_t>.stringdata,
00173
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN10MainWindowE_t>.data,
00174
          qt_static_metacall,
00175
          nullptr.
00176
          qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN10MainWindowE_t>.metaTypes,
00177
          nullptr
00178 } };
00179
00180 void MainWindow::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00181 {
          auto *_t = static_cast<MainWindow *>(_o);
00182
00183
          if (_c == QMetaObject::InvokeMetaMethod) {
             switch (_id) {
00184
00185
              case 0: _t->startScan(); break;
00186
              case 1: _t->stopScan(); break;
00187
              case 2: _t->onHostFound((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00188
              case 3: _t->onScanStarted(); break;
```

```
00189
              case 4: _t->onScanFinished(); break;
00190
              case 5: t->onScanProgress((*reinterpret_cast< std::add_pointer_t<int>>(_a[1]))); break;
00191
              case 6: _t->onScanError((*reinterpret_cast< std::add_pointer_t<QString>>(_a[1]))); break;
00192
              case 7: _t->saveResults(); break;
00193
              case 8: _t->clearResults(); break;
              case 9: _t->showSettings(); break;
00194
00195
              case 10: _t->applySettings(); break;
00196
              case 11: _t->showAbout(); break;
00197
              case 12: _t->showHostDetails((*reinterpret_cast<</pre>
     std::add_pointer_t<int>>(_a[1])), (*reinterpret_cast< std::add_pointer_t<int>>(_a[2]))); break;
00198
             case 13: _t->exportToCSV(); break;
              case 14: _t->togglePortScanOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1])));
00199
     break;
00200
              case 15: _t->toggleRangeOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00201
              case 16: _t->showTopologyView(); break;
00202
              case 17: _t->showStatisticsView(); break;
00203
              case 18: _t->showHistoryView(); break;
00204
              case 19: _t->generateSecurityReport(); break;
00205
              case 20: _t->saveTopologyImage(); break;
00206
              case 21: _t->toggleDarkMode((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00207
              case 22: _t->compareScanResults(); break;
00208
              case 23: _t->scheduleScan(); break;
00209
              case 24: _t->saveHistoryToFile(); break;
00210
              case 25: _t->loadHistoryFromFile(); break;
00211
              case 26: _t->updateNetworkTopology(); break;
00212
              case 27: _t->refreshTopology(); break;
00213
              case 28: _t->filterResults(); break;
00214
              case 29: _t->clearFilters(); break;
00215
              case 30: _t->onThemeChanged(); break;
00216
              default: ;
00217
              }
00218
          }
00219 }
00220
00221 const QMetaObject *MainWindow::metaObject() const
00222 {
00223
          return OObject::d_ptr->metaObject ? OObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00225
00226 void *MainWindow::qt_metacast(const char *_clname)
00227 {
00228
          if (!_clname) return nullptr;
           \begin{tabular}{ll} if (!strcmp(.clname, qt\_staticMetaObjectStaticContent < qt\_meta\_tag\_ZN1OMainWindowE\_t > .strings)) \end{tabular} 
00229
00230
              return static_cast<void*>(this);
00231
          return QMainWindow::qt_metacast(_clname);
00232 }
00233
00234 int MainWindow::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00235 {
          _id = QMainWindow::qt_metacall(_c, _id, _a);
00236
          if (_id < 0)</pre>
00238
              return _id;
00239
          if (_c == QMetaObject::InvokeMetaMethod) {
00240
              if (_id < 31)
              qt_static_metacall(this, _c, _id, _a);
_id -= 31;
00241
00242
00243
00244
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00245
              if (_id < 31)</pre>
00246
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
              id -= 31:
00247
00248
00249
          return _id;
00250
00251 OT_WARNING_POP
```

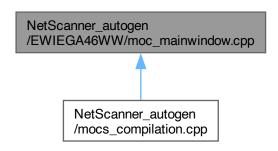
9.20 NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp 文件参 考

```
#include "../../mainwindow.h"
#include <QtGui/qtextcursor.h>
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
```

moc_mainwindow.cpp 的引用(Include)关系图:



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10MainWindowE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.20.1 宏定义说明

9.20.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.21 moc_mainwindow.cpp

```
00002 ** Meta object code from reading C++ file 'mainwindow.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00008
00009 #include "../../mainwindow.h"
00010 #include <QtGui/qtextcursor.h>
00011 #include <QtCore/qmetatype.h>
00012
00013 #include <QtCore/qtmochelpers.h>
00014
00015 #include <memory>
00016
00017
00018 #include <QtCore/qxptype_traits.h>
00019 #if !defined(Q_MOC_OUTPUT_REVISION)
00020 #error "The header file 'mainwindow.h' doesn't include <QObject>."
00021 #elif Q_MOC_OUTPUT_REVISION != 69
00022 #error "This file was generated using the moc from 6.9.0. It"
00023 #error "cannot be used with the include files from this version of Qt."
00024 #error "(The moc has changed too much.)"
00025 #endif
00026
00027 #ifndef Q_CONSTINIT
00028 #define Q_CONSTINIT
00029 #endif
00030
00031 QT_WARNING_PUSH
00032 QT_WARNING_DISABLE_DEPRECATED
00033 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00034 namespace \{
00035 struct qt_meta_tag_ZN10MainWindowE_t {};
00036 } // unnamed namespace
00037
00038 template <> constexpr inline auto MainWindow::qt_create_metaobjectdata<qt_meta_tag_ZN10MainWindowE_t>()
00039 {
00040
           namespace QMC = QtMocConstants;
00041
           QtMocHelpers::StringRefStorage qt_stringData {
               "MainWindow",
00042
               "startScan",
00043
00044
00045
               "stopScan",
00046
               "onHostFound",
               "HostInfo",
"host",
00047
00048
00049
               "onScanStarted",
00050
               "onScanFinished",
00051
               "onScanProgress",
00052
               "progress",
               "onScanError"
00053
               "errorMessage",
00054
               "saveResults",
00055
00056
               "clearResults",
00057
               "showSettings"
               "applySettings",
00058
               "showAbout",
00059
               "showHostDetails",
00060
00061
               "row",
00062
               "column",
00063
               "exportToCSV",
00064
               "togglePortScanOptions",
00065
               "checked",
00066
               "toggleRangeOptions",
               "showTopologyView",
00067
00068
               "showStatisticsView",
00069
               "showHistoryView",
00070
               "generateSecurityReport",
00071
               "saveTopologyImage",
               "toggleDarkMode",
00072
               "enable",
"compareScanResults",
00073
00074
00075
               "scheduleScan",
00076
               "saveHistoryToFile",
00077
               "loadHistoryFromFile"
00078
               "updateNetworkTopology",
00079
               "refreshTopology",
00080
               "filterResults",
00081
               "clearFilters",
               "onThemeChanged"
```

```
00083
          };
00084
00085
          QtMocHelpers::UintData qt_methods {
00086
              // Slot 'startScan'
00087
              OtMocHelpers::SlotData<void()>(1, 2, OMC::AccessPrivate, OMetaType::Void),
00088
              // Slot
                      stopScan
00089
              QtMocHelpers::SlotData<void()>(3, 2, QMC::AccessPrivate, QMetaType::Void),
00090
               / Slot 'onHostFound'
00091
              QtMocHelpers::SlotData<void(const HostInfo &)>(4, 2, QMC::AccessPrivate, QMetaType::Void, \{ \{ \} \} \}
00092
                  \{ 0x80000000 | 5, 6 \},
             }}),
// Slot 'onScanStarted'
00093
00094
00095
              QtMocHelpers::SlotData<void()>(7, 2, QMC::AccessPrivate, QMetaType::Void),
00096
              // Slot 'onScanFinished'
00097
              QtMocHelpers::SlotData<void()>(8, 2, QMC::AccessPrivate, QMetaType::Void),
00098
              // Slot 'onScanProgress'
              QtMocHelpers::SlotData<void(int)>(9, 2, QMC::AccessPrivate, QMetaType::Void, {{
00099
00100
                 { QMetaType::Int, 10 },
00101
00102
                Slot 'onScanError'
              00103
                 { QMetaType::QString, 12 },
00104
00105
              }}),
              // Slot 'saveResults'
00106
00107
              QtMocHelpers::SlotData<void()>(13, 2, QMC::AccessPrivate, QMetaType::Void),
00108
              // Slot 'clearResults'
00109
              QtMocHelpers::SlotData<void()>(14, 2, QMC::AccessPrivate, QMetaType::Void),
00110
              // Slot 'showSettings'
00111
              QtMocHelpers::SlotData<void()>(15, 2, QMC::AccessPrivate, QMetaType::Void),
00112
              // Slot 'applySettings'
00113
              QtMocHelpers::SlotData<void()>(16, 2, QMC::AccessPrivate, QMetaType::Void),
00114
                      showAbout'
              // Slot
00115
              QtMocHelpers::SlotData<void()>(17, 2, QMC::AccessPrivate, QMetaType::Void),
00116
              // Slot 'showHostDetails'
             00117
00118
              }}),
00119
              // Slot 'exportToCSV'
00121
              QtMocHelpers::SlotData<void()>(21, 2, QMC::AccessPrivate, QMetaType::Void),
              // Slot 'togglePortScanOptions'
00122
00123
              QtMocHelpers::SlotData<void(bool)>(22, 2, QMC::AccessPrivate, QMetaType::Void, {{
00124
                 { QMetaType::Bool, 23 },
00125
              }}),
00126
              // Slot 'toggleRangeOptions'
              QtMocHelpers::SlotData<void(bool)>(24, 2, QMC::AccessPrivate, QMetaType::Void, {{
00127
00128
                 { QMetaType::Bool, 23 },
00129
00130
              // Slot 'showTopologyView'
              QtMocHelpers::SlotData<void()>(25, 2, QMC::AccessPrivate, QMetaType::Void),
00131
              // Slot 'showStatisticsView'
00132
00133
              QtMocHelpers::SlotData<void()>(26, 2, QMC::AccessPrivate, QMetaType::Void),
00134
              // Slot 'showHistoryView'
00135
              QtMocHelpers::SlotData<void()>(27, 2, QMC::AccessPrivate, QMetaType::Void),
00136
              // Slot 'generateSecurityReport'
              QtMocHelpers::SlotData<void()>(28, 2, QMC::AccessPrivate, QMetaType::Void),
00137
00138
              // Slot 'saveTopologyImage'
              QtMocHelpers::SlotData<void()>(29, 2, QMC::AccessPrivate, QMetaType::Void),
00140
              // Slot 'toggleDarkMode'
00141
              QtMocHelpers::SlotData<void(bool)>(30, 2, QMC::AccessPrivate, QMetaType::Void, {{
00142
                 { QMetaType::Bool, 31 },
00143
              // Slot 'compareScanResults'
00144
00145
              QtMocHelpers::SlotData<void()>(32, 2, QMC::AccessPrivate, QMetaType::Void),
00146
              // Slot 'scheduleScan'
00147
              QtMocHelpers::SlotData<void()>(33, 2, QMC::AccessPrivate, QMetaType::Void),
00148
              // Slot 'saveHistoryToFile'
              QtMocHelpers::SlotData<void()>(34, 2, QMC::AccessPrivate, QMetaType::Void),
00149
00150
              // Slot
                      'loadHistorvFromFile'
00151
              QtMocHelpers::SlotData<void()>(35, 2, QMC::AccessPrivate, QMetaType::Void),
00152
              // Slot 'updateNetworkTopology
00153
              QtMocHelpers::SlotData<void()>(36, 2, QMC::AccessPrivate, QMetaType::Void),
00154
              // Slot 'refreshTopology'
             QtMocHelpers::SlotData<void()>(37, 2, QMC::AccessPrivate, QMetaType::Void),
// Slot 'filterResults'
00155
00156
              QtMocHelpers::SlotData<void()>(38, 2, QMC::AccessPrivate, QMetaType::Void),
00157
              // Slot 'clearFilters'
00158
00159
              QtMocHelpers::SlotData<void()>(39, 2, QMC::AccessPrivate, QMetaType::Void),
00160
              // Slot 'onThemeChanged'
00161
              QtMocHelpers::SlotData<void()>(40, 2, QMC::AccessPrivate, QMetaType::Void),
00162
          OtMocHelpers::UintData gt_properties {
00163
00164
00165
          QtMocHelpers::UintData qt_enums {
00166
00167
          return QtMocHelpers::metaObjectData<MainWindow,
      qt_meta_tag_ZN10MainWindowE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00168
                 qt_methods, qt_properties, qt_enums);
```

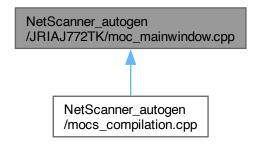
```
00169 }
00170 Q_CONSTINIT const QMetaObject MainWindow::staticMetaObject = { {
00171
         QMetaObject::SuperData::link<QMainWindow::staticMetaObject>(),
00172
         00173
         qt_staticMetaObjectStaticContent<qt_meta_tag_ZN10MainWindowE_t>.data,
00174
         gt_static_metacall.
00175
         nullptr,
00176
         qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN10MainWindowE_t>.metaTypes,
00177
         nullptr
00178 } };
00179
00180 void MainWindow::gt_static_metacall(OObject *_o, OMetaObject::Call _c, int _id, void **_a)
00181 {
         auto *_t = static_cast<MainWindow *>(_o);
00182
00183
          if (_c == QMetaObject::InvokeMetaMethod) {
00184
             switch (_id) {
00185
             case 0: _t->startScan(); break;
             case 1: _t->stopScan(); break;
00186
             case 2: _t->onHostFound((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00187
00188
             case 3: _t->onScanStarted(); break;
             case 4: _t->onScanFinished(); break;
00189
00190
             case 5: _t->onScanProgress((*reinterpret_cast< std::add_pointer_t<int>>(_a[1]))); break;
00191
             case 6: _t->onScanError((*reinterpret_cast< std::add_pointer_t<QString>>(_a[1]))); break;
00192
             case 7: _t->saveResults(); break;
             case 8: _t->clearResults(); break;
00193
             case 9: _t->showSettings(); break;
00194
00195
             case 10: _t->applySettings(); break;
00196
             case 11: _t->showAbout(); break;
00197
              case 12: _t->showHostDetails((*reinterpret_cast<</pre>
     00198
00199
             case 14: _t->togglePortScanOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1])));
             case 15: _t->toggleRangeOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00200
00201
             case 16: _t->showTopologyView(); break;
             case 17: _t->showStatisticsView(); break;
00202
00203
             case 18: _t->showHistoryView(); break;
             case 19: _t->generateSecurityReport(); break;
00205
             case 20: _t->saveTopologyImage(); break;
00206
             case 21: _t->toggleDarkMode((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00207
             case 22: _t->compareScanResults(); break;
00208
             case 23: _t->scheduleScan(); break;
00209
             case 24: _t->saveHistoryToFile(); break;
00210
             case 25: _t->loadHistoryFromFile(); break;
00211
             case 26: _t->updateNetworkTopology(); break;
00212
             case 27: _t->refreshTopology(); break;
00213
             case 28: _t->filterResults(); break;
00214
             case 29: _t->clearFilters(); break;
00215
             case 30: _t->onThemeChanged(); break;
00216
             default: :
00217
             }
00218
         }
00219 }
00220
00221 const OMetaObject *MainWindow::metaObject() const
00222 {
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00224 }
00225
00226 void *MainWindow::qt_metacast(const char *_clname)
00227 {
00228
          if (!-clname) return nullptr;
00229
         if (!strcmp(.clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN1OMainWindowE_t>.strings))
              return static_cast<void*>(this);
00230
00231
          return QMainWindow::qt_metacast(_clname);
00232 }
00233
00234 int MainWindow::gt_metacall(OMetaObject::Call _c, int _id, void **_a)
00235 {
00236
          _id = QMainWindow::qt_metacall(_c, _id, _a);
00237
         if (_id < 0)</pre>
00238
              return _id;
00239
          if (_c == QMetaObject::InvokeMetaMethod) {
00240
             if (_id < 31)
00241
                 qt_static_metacall(this, _c, _id, _a);
00242
             _id -= 31;
00243
00244
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00245
             if (_id < 31)
00246
                 *reinterpret_cast<OMetaType *>(_a[0]) = OMetaType();
             _id -= 31;
00247
00248
00249
         return _id;
00250 }
00251 OT_WARNING_POP
```

9.22 NetScanner_autogen/JRIAJ772TK/moc_mainwindow.cpp 文件参考

```
#include "../../mainwindow.h"
#include <QtGui/qtextcursor.h>
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_mainwindow.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN10MainWindowE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.22.1 宏定义说明

9.22.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.23 moc_mainwindow.cpp

```
浏览该文件的文档.
```

```
00002 ** Meta object code from reading C++ file 'mainwindow.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00008
00009 #include "../../mainwindow.h"
00010 #include <QtGui/qtextcursor.h>
00011 #include <QtCore/qmetatype.h>
00012
00013 #include <QtCore/qtmochelpers.h>
00014
00015 #include <memory>
00016
00017
00018 #include <QtCore/qxptype_traits.h>
00019 #if !defined(Q_MOC_OUTPUT_REVISION)
00020 #error "The header file 'mainwindow.h' doesn't include <QObject>."
00021 #elif Q_MOC_OUTPUT_REVISION != 69
00022 #error "This file was generated using the moc from 6.9.0. It"
00023 #error "cannot be used with the include files from this version of Qt."
00024 #error "(The moc has changed too much.)"
00025 #endif
00026
00027 #ifndef Q_CONSTINIT
00028 #define Q_CONSTINIT
00029 #endif
00030
00031 QT_WARNING_PUSH
00032 QT_WARNING_DISABLE_DEPRECATED
00033 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00034 namespace \{
00035 struct qt_meta_tag_ZN10MainWindowE_t {};
00036 } // unnamed namespace
00037
00038 template <> constexpr inline auto MainWindow::qt_create_metaobjectdata<qt_meta_tag_ZN10MainWindowE_t>()
00039 {
00040
           namespace QMC = QtMocConstants;
00041
           QtMocHelpers::StringRefStorage qt_stringData {
               "MainWindow",
00042
               "startScan",
00043
00044
00045
               "stopScan",
00046
               "onHostFound",
               "HostInfo",
"host",
00047
00048
00049
               "onScanStarted",
00050
               "onScanFinished",
00051
               "onScanProgress",
00052
               "progress",
               "onScanError"
00053
               "errorMessage",
00054
               "saveResults",
00055
00056
               "clearResults",
00057
               "showSettings"
               "applySettings",
00058
               "showAbout",
00059
               "showHostDetails",
00060
00061
               "row",
00062
               "column",
00063
               "exportToCSV",
00064
               "togglePortScanOptions",
00065
               "checked",
00066
               "toggleRangeOptions",
               "showTopologyView",
00067
00068
               "showStatisticsView",
00069
               "showHistoryView",
00070
               "generateSecurityReport",
00071
               "saveTopologyImage",
               "toggleDarkMode",
00072
               "enable",
"compareScanResults",
00073
00074
00075
               "scheduleScan",
00076
               "saveHistoryToFile",
00077
               "loadHistoryFromFile"
00078
               "updateNetworkTopology",
00079
               "refreshTopology",
00080
               "filterResults",
00081
               "clearFilters",
00082
               "onThemeChanged"
```

```
00083
          };
00084
00085
          QtMocHelpers::UintData qt_methods {
00086
              // Slot 'startScan'
00087
              OtMocHelpers::SlotData<void()>(1, 2, OMC::AccessPrivate, OMetaType::Void),
00088
              // Slot
                      stopScan
00089
              QtMocHelpers::SlotData<void()>(3, 2, QMC::AccessPrivate, QMetaType::Void),
00090
               / Slot 'onHostFound'
00091
              QtMocHelpers::SlotData<void(const HostInfo &)>(4, 2, QMC::AccessPrivate, QMetaType::Void, \{ \{ \} \} \}
00092
                  \{ 0x80000000 | 5, 6 \},
             }}),
// Slot 'onScanStarted'
00093
00094
00095
              QtMocHelpers::SlotData<void()>(7, 2, QMC::AccessPrivate, QMetaType::Void),
00096
              // Slot 'onScanFinished'
00097
              QtMocHelpers::SlotData<void()>(8, 2, QMC::AccessPrivate, QMetaType::Void),
00098
              // Slot 'onScanProgress'
              QtMocHelpers::SlotData<void(int)>(9, 2, QMC::AccessPrivate, QMetaType::Void, {{
00099
00100
                 { QMetaType::Int, 10 },
00101
00102
                Slot 'onScanError'
              00103
                 { QMetaType::QString, 12 },
00104
00105
              }}),
              // Slot 'saveResults'
00106
00107
              QtMocHelpers::SlotData<void()>(13, 2, QMC::AccessPrivate, QMetaType::Void),
00108
              // Slot 'clearResults'
00109
              QtMocHelpers::SlotData<void()>(14, 2, QMC::AccessPrivate, QMetaType::Void),
00110
              // Slot 'showSettings'
00111
              QtMocHelpers::SlotData<void()>(15, 2, QMC::AccessPrivate, QMetaType::Void),
00112
              // Slot 'applySettings'
00113
              QtMocHelpers::SlotData<void()>(16, 2, QMC::AccessPrivate, QMetaType::Void),
00114
                      showAbout'
              // Slot
00115
              QtMocHelpers::SlotData<void()>(17, 2, QMC::AccessPrivate, QMetaType::Void),
00116
              // Slot 'showHostDetails'
             00117
00118
              }}),
00119
              // Slot 'exportToCSV'
00121
              QtMocHelpers::SlotData<void()>(21, 2, QMC::AccessPrivate, QMetaType::Void),
              // Slot 'togglePortScanOptions'
00122
00123
              QtMocHelpers::SlotData<void(bool)>(22, 2, QMC::AccessPrivate, QMetaType::Void, {{
00124
                 { QMetaType::Bool, 23 },
00125
              }}),
00126
              // Slot 'toggleRangeOptions'
              QtMocHelpers::SlotData<void(bool)>(24, 2, QMC::AccessPrivate, QMetaType::Void, {{
00127
00128
                 { QMetaType::Bool, 23 },
00129
00130
              // Slot 'showTopologyView'
              QtMocHelpers::SlotData<void()>(25, 2, QMC::AccessPrivate, QMetaType::Void),
00131
              // Slot 'showStatisticsView'
00132
00133
              QtMocHelpers::SlotData<void()>(26, 2, QMC::AccessPrivate, QMetaType::Void),
00134
              // Slot 'showHistoryView'
00135
              QtMocHelpers::SlotData<void()>(27, 2, QMC::AccessPrivate, QMetaType::Void),
00136
              // Slot 'generateSecurityReport'
              QtMocHelpers::SlotData<void()>(28, 2, QMC::AccessPrivate, QMetaType::Void),
00137
00138
              // Slot 'saveTopologyImage'
              QtMocHelpers::SlotData<void()>(29, 2, QMC::AccessPrivate, QMetaType::Void),
00140
              // Slot 'toggleDarkMode'
00141
              QtMocHelpers::SlotData<void(bool)>(30, 2, QMC::AccessPrivate, QMetaType::Void, {{
00142
                 { QMetaType::Bool, 31 },
00143
              // Slot 'compareScanResults'
00144
00145
              QtMocHelpers::SlotData<void()>(32, 2, QMC::AccessPrivate, QMetaType::Void),
00146
              // Slot 'scheduleScan'
00147
              QtMocHelpers::SlotData<void()>(33, 2, QMC::AccessPrivate, QMetaType::Void),
00148
              // Slot 'saveHistoryToFile'
              QtMocHelpers::SlotData<void()>(34, 2, QMC::AccessPrivate, QMetaType::Void),
00149
00150
              // Slot
                      'loadHistorvFromFile'
00151
              QtMocHelpers::SlotData<void()>(35, 2, QMC::AccessPrivate, QMetaType::Void),
00152
              // Slot 'updateNetworkTopology
00153
              QtMocHelpers::SlotData<void()>(36, 2, QMC::AccessPrivate, QMetaType::Void),
00154
              // Slot 'refreshTopology'
             QtMocHelpers::SlotData<void()>(37, 2, QMC::AccessPrivate, QMetaType::Void),
// Slot 'filterResults'
00155
00156
              QtMocHelpers::SlotData<void()>(38, 2, QMC::AccessPrivate, QMetaType::Void),
00157
              // Slot 'clearFilters'
00158
00159
              QtMocHelpers::SlotData<void()>(39, 2, QMC::AccessPrivate, QMetaType::Void),
00160
              // Slot 'onThemeChanged'
00161
              QtMocHelpers::SlotData<void()>(40, 2, QMC::AccessPrivate, QMetaType::Void),
00162
          OtMocHelpers::UintData gt_properties {
00163
00164
00165
          QtMocHelpers::UintData qt_enums {
00166
00167
          return QtMocHelpers::metaObjectData<MainWindow,
      qt_meta_tag_ZN10MainWindowE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00168
                 qt_methods, qt_properties, qt_enums);
```

```
00169 }
00170 Q_CONSTINIT const QMetaObject MainWindow::staticMetaObject = { {
00171
         QMetaObject::SuperData::link<QMainWindow::staticMetaObject>(),
00172
         00173
         qt_staticMetaObjectStaticContent<qt_meta_tag_ZN10MainWindowE_t>.data,
00174
         gt_static_metacall.
00175
         nullptr,
00176
         qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN10MainWindowE_t>.metaTypes,
00177
         nullptr
00178 } };
00179
00180 void MainWindow::gt_static_metacall(OObject *_o, OMetaObject::Call _c, int _id, void **_a)
00181 {
         auto *_t = static_cast<MainWindow *>(_o);
00182
00183
          if (_c == QMetaObject::InvokeMetaMethod) {
00184
             switch (_id) {
00185
             case 0: _t->startScan(); break;
             case 1: _t->stopScan(); break;
00186
             case 2: _t->onHostFound((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00187
00188
             case 3: _t->onScanStarted(); break;
             case 4: _t->onScanFinished(); break;
00189
00190
             case 5: _t->onScanProgress((*reinterpret_cast< std::add_pointer_t<int>>(_a[1]))); break;
00191
             case 6: _t->onScanError((*reinterpret_cast< std::add_pointer_t<QString>>(_a[1]))); break;
00192
             case 7: _t->saveResults(); break;
             case 8: _t->clearResults(); break;
00193
             case 9: _t->showSettings(); break;
00194
00195
             case 10: _t->applySettings(); break;
00196
             case 11: _t->showAbout(); break;
00197
              case 12: _t->showHostDetails((*reinterpret_cast<</pre>
     00198
00199
             case 14: _t->togglePortScanOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1])));
             case 15: _t->toggleRangeOptions((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00200
00201
             case 16: _t->showTopologyView(); break;
             case 17: _t->showStatisticsView(); break;
00202
00203
             case 18: _t->showHistoryView(); break;
             case 19: _t->generateSecurityReport(); break;
00205
             case 20: _t->saveTopologyImage(); break;
00206
             case 21: _t->toggleDarkMode((*reinterpret_cast< std::add_pointer_t<bool>>(_a[1]))); break;
00207
             case 22: _t->compareScanResults(); break;
00208
             case 23: _t->scheduleScan(); break;
00209
             case 24: _t->saveHistoryToFile(); break;
00210
             case 25: _t->loadHistoryFromFile(); break;
00211
             case 26: _t->updateNetworkTopology(); break;
00212
             case 27: _t->refreshTopology(); break;
00213
             case 28: _t->filterResults(); break;
00214
             case 29: _t->clearFilters(); break;
00215
             case 30: _t->onThemeChanged(); break;
00216
             default: :
00217
             }
00218
         }
00219 }
00220
00221 const OMetaObject *MainWindow::metaObject() const
00222 {
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00224 }
00225
00226 void *MainWindow::qt_metacast(const char *_clname)
00227 {
00228
          if (!-clname) return nullptr;
00229
         if (!strcmp(.clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN1OMainWindowE_t>.strings))
              return static_cast<void*>(this);
00230
00231
          return QMainWindow::qt_metacast(_clname);
00232 }
00233
00234 int MainWindow::gt_metacall(OMetaObject::Call _c, int _id, void **_a)
00235 {
00236
          _id = QMainWindow::qt_metacall(_c, _id, _a);
00237
         if (_id < 0)</pre>
00238
              return _id;
00239
          if (_c == QMetaObject::InvokeMetaMethod) {
00240
             if (_id < 31)
00241
                 qt_static_metacall(this, _c, _id, _a);
00242
             _id -= 31;
00243
00244
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00245
             if (_id < 31)
00246
                 *reinterpret_cast<OMetaType *>(_a[0]) = OMetaType();
             _id -= 31;
00247
00248
00249
         return _id;
00250 }
00251 OT_WARNING_POP
```

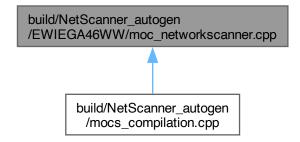
9.24 build/NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp.d 文件参考

- 9.25 NetScanner_autogen/EWIEGA46WW/moc_mainwindow.cpp.d 文件 参考
- 9.26 NetScanner_autogen/JRIAJ772TK/moc_mainwindow.cpp.d 文件参考
- 9.27 build/NetScanner_autogen/EWIEGA46WW/moc_networkscanner.cpp 文件参考

```
#include "../../networkscanner.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_networkscanner.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14NetworkScannerE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.27.1 宏定义说明

9.27.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.28 moc_networkscanner.cpp

```
00002 ** Meta object code from reading C++ file 'networkscanner.h'
00003 **
00004 ** Created by: The Qt Meta Object Compiler version 69 (Qt 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00009 #include "../../networkscanner.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <QtCore/qtmochelpers.h>
00013
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'networkscanner.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It"
00022 #error "cannot be used with the include files from this version of Qt."
00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 OT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace {
00034 struct qt_meta_tag_ZN14NetworkScannerE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      NetworkScanner::qt_create_metaobjectdata<qt_meta_tag_ZN14NetworkScannerE_t>()
00038 {
00039
          namespace QMC = QtMocConstants;
00040
          QtMocHelpers::StringRefStorage qt_stringData {
00041
              "NetworkScanner",
              "hostFound",
00042
00043
00044
              "HostInfo",
00045
              "host",
00046
              "scanStarted"
              "scanFinished",
00047
00048
              "scanProgress",
00049
              "progress",
00050
              "scanError"
00051
              "errorMessage",
```

```
00052
             "onScanTaskFinished",
00053
             "hostInfo",
00054
             "updateScanProgress",
             "onHostNameLookedUp",
"QHostInfo"
00055
00056
00057
         };
00058
00059
         QtMocHelpers::UintData qt_methods {
00060
             // Signal 'hostFound'
00061
             00062
                 { 0x80000000 | 3, 4 },
00063
             }}),
00064
               Signal 'scanStarted'
00065
             QtMocHelpers::SignalData<void()>(5, 2, QMC::AccessPublic, QMetaType::Void),
00066
             // Signal 'scanFinished'
             QtMocHelpers::SignalData<void()>(6, 2, QMC::AccessPublic, QMetaType::Void),
// Signal 'scanProgress'
00067
00068
             QtMocHelpers::SignalData<void(int)>(7, 2, QMC::AccessPublic, QMetaType::Void, {{
00069
                 { QMetaType::Int, 8 },
00070
00071
             }}),
00072
              // Signal 'scanError'
00073
             00074
                 { QMetaType::QString, 10 },
             00075
00076
00077
             \{ 0x80000000 | 3, 12 \},
00078
00079
             // Slot 'updateScanProgress'
00080
             QtMocHelpers::SlotData<void()>(13, 2, QMC::AccessPublic, QMetaType::Void),
00081
             // Slot 'onHostNameLookedUp'
00082
00083
             QtMocHelpers::SlotData<void(const QHostInfo &)>(14, 2, QMC::AccessPublic, QMetaType::Void, {{
00084
                 \{ 0x800000000 \mid 15, 12 \},
00085
             }}),
00086
         QtMocHelpers::UintData qt_properties {
00087
00088
00089
         QtMocHelpers::UintData qt_enums {
00090
         };
          return QtMocHelpers::metaObjectData<NetworkScanner,
00091
     qt_meta_tag_ZN14NetworkScannerE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00092
                 qt_methods, qt_properties, qt_enums);
00093 }
00094 Q_CONSTINIT const QMetaObject NetworkScanner::staticMetaObject = { {
         QMetaObject::SuperData::link<QObject::staticMetaObject>(),
00095
00096
         qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14NetworkScannerE_t>.stringdata,
00097
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14NetworkScannerE_t>.data,
         qt_static_metacall,
00098
00099
         nullptr.
00100
         gt_staticMetaObjectRelocatingContent<gt_meta_tag_ZN14NetworkScannerE_t>.metaTypes.
00101
         nullptr
00102 } };
00103
00104 void NetworkScanner::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00105 {
00106
         auto *_t = static_cast<NetworkScanner *>(_o);
         if (_c == QMetaObject::InvokeMetaMethod) {
00107
00108
             switch (_id) {
00109
             case 0: _t->hostFound((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00110
             case 1: _t->scanStarted(); break;
00111
             case 2: _t->scanFinished(); break;
             case 3: _t->scanProgress((*reinterpret_cast< std::add.pointer.t<int>>(_a[1]))); break;
00112
00113
             case 4: _t->scanError((*reinterpret_cast< std::add_pointer_t<QString>>(_a[1]))); break;
             case 5: _t->onScanTaskFinished((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1])));
00114
     break:
00115
             case 6: _t->updateScanProgress(); break;
00116
             case 7: _t->onHostNameLookedUp((*reinterpret_cast< std::add_pointer_t<QHostInfo>>(_a[1])));
     break:
00117
             default: :
00118
00119
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00120
             switch (_id) {
00121
00122
             default: *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType(); break;
00123
             case 7:
00124
                 switch (*reinterpret_cast<int*>(_a[1])) {
00125
                 default: *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType(); break;
00126
                 case 0:
00127
                     *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType::fromType< QHostInfo >(); break;
00128
                 }
00129
                 break;
00130
             }
00131
00132
          if (_c == QMetaObject::IndexOfMethod) {
00133
             if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)(const HostInfo & )>(.a,
     &NetworkScanner::hostFound, 0))
00134
                 return:
```

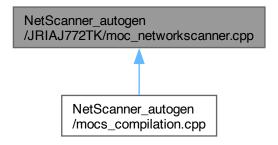
```
00135
             if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)()>(_a, &NetworkScanner::scanStarted,
     1))
00136
                  return:
00137
             if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)()>(_a, &NetworkScanner::scanFinished,
      2))
00138
                  return:
             if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)(int )>(.a,
00139
     &NetworkScanner::scanProgress, 3))
                 return;
00140
             if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)(const QString & )>(_a,
00141
     &NetworkScanner::scanError, 4))
00142
                 return:
00143
         }
00144 }
00145
00146 const QMetaObject *NetworkScanner::metaObject() const
00147 {
00148
          return OObject::d_ptr->metaObject ? OObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00149 }
00150
00151 void *NetworkScanner::qt_metacast(const char *_clname)
00152 {
00153
          if (!_clname) return nullptr;
         00154
00155
              return static_cast<void*>(this);
00156
          return QObject::qt_metacast(_clname);
00157 }
00158
00159 int NetworkScanner::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00160 {
00161
          _id = QObject::qt_metacall(_c, _id, _a);
00162
          if (_id < 0)
00163
              return _id;
00164
          if (_c == QMetaObject::InvokeMetaMethod) {
00165
             if (_id < 8)</pre>
                 qt_static_metacall(this, _c, _id, _a);
00166
              _id -= 8;
00167
00168
00169
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00170
             if (_id < 8)</pre>
                 qt_static_metacall(this, _c, _id, _a);
00171
              _id -= 8;
00172
00173
         }
00174
          return _id;
00175 }
00176
00177 // SIGNAL 0
00178 void NetworkScanner::hostFound(const HostInfo & _t1)
00179 {
00180
          OMetaObject::activate<void>(this, &staticMetaObject, 0, nullptr, _t1);
00181 }
00182
00183 // SIGNAL 1
00184 void NetworkScanner::scanStarted()
00185 {
00186
         OMetaObject::activate(this, &staticMetaObject, 1, nullptr);
00187 }
00188
00189 // SIGNAL 2
00190 void NetworkScanner::scanFinished()
00191 {
00192
         OMetaObject::activate(this, &staticMetaObject, 2, nullptr);
00193 }
00194
00195 // SIGNAL 3
00196 void NetworkScanner::scanProgress(int _t1)
00197 {
00198
          OMetaObject::activate<void>(this, &staticMetaObject, 3, nullptr, 11);
00199 }
00200
00201 // SIGNAL 4
00202 void NetworkScanner::scanError(const QString & _t1)
00203 {
00204
          OMetaObject::activate<void>(this, &staticMetaObject, 4, nullptr, .t1);
00205 }
00206 QT_WARNING_POP
```

9.29 NetScanner_autogen/JRIAJ772TK/moc_networkscanner.cpp 文件参考

```
#include "../../networkscanner.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_networkscanner.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN14NetworkScannerE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.29.1 宏定义说明

9.29.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.30 moc_networkscanner.cpp

```
00002 ** Meta object code from reading C++ file 'networkscanner.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00008
00009 #include "../../networkscanner.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <OtCore/gtmochelpers.h>
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'networkscanner.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It" 00022 #error "cannot be used with the include files from this version of Qt." 00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 OT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace \{
00034 struct qt_meta_tag_ZN14NetworkScannerE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
           NetworkScanner::qt_create_metaobjectdata<qt_meta_tag_ZN14NetworkScannerE_t>()
00038 {
00039
                   namespace QMC = QtMocConstants;
00040
                   QtMocHelpers::StringRefStorage qt_stringData {
00041
                           "NetworkScanner",
                           "scanStarted",
00042
00043
00044
                           "scanFinished",
00045
                           "hostFound",
00046
                           "HostInfo",
"host",
00047
00048
                           "scanProgress",
                           "progress",
"scanError",
00049
00050
00051
                           "errorMessage",
00052
                           "processScanResults"
00053
                   };
00054
00055
                   QtMocHelpers::UintData qt_methods {
00056
                           // Signal 'scanStarted'
00057
                           QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00058
                           // Signal 'scanFinished'
                           QtMocHelpers::SignalData<void()>(3, 2, QMC::AccessPublic, QMetaType::Void),
// Signal 'hostFound'
00059
00060
00061
                           QtMocHelpers::SignalData<void(const HostInfo &)>(4, 2, QMC::AccessPublic, QMetaType::Void, {{
                                 \{ 0x80000000015, 6 \},
00062
00063
00064
                           // Signal 'scanProgress'
00065
                           QtMocHelpers::SignalData<void(int)>(7, 2, QMC::AccessPublic, QMetaType::Void, {{
00066
                                  { QMetaType::Int, 8 },
00067
                           }}),
                            // Signal 'scanError'
00068
00069
                            \texttt{QtMocHelpers::SignalData<void(const QString \&)>(9, 2, QMC::AccessPublic, QMetaType::Void, \{\{(0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,0), (0,
00070
                                 { QMetaType::QString, 10 },
00071
00072
                            // Slot 'processScanResults'
00073
                           QtMocHelpers::SlotData<void()>(11, 2, QMC::AccessPrivate, QMetaType::Void),
00074
00075
                   QtMocHelpers::UintData qt_properties {
00076
00077
                   QtMocHelpers::UintData qt_enums {
00078
00079
                   return OtMocHelpers::metaObjectData<NetworkScanner,
           qt_meta_tag_ZN14NetworkScannerE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00080
                                  qt_methods, qt_properties, qt_enums);
```

```
00081 }
00082 Q_CONSTINIT const QMetaObject NetworkScanner::staticMetaObject = { {
00083
          QMetaObject::SuperData::link<QObject::staticMetaObject>(),
00084
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14NetworkScannerE_t>.stringdata,
00085
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14NetworkScannerE_t>.data,
00086
          gt_static_metacall.
00087
          nullptr,
00088
          qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN14NetworkScannerE_t>.metaTypes,
00089
          nullptr
00090 } };
00091
00092 void NetworkScanner::gt_static_metacall(00bject *_o, OMetaObject::Call _c, int _id, void **_a)
00093 {
00094
          auto *_t = static_cast<NetworkScanner *>(_o);
00095
          if (_c == QMetaObject::InvokeMetaMethod) {
00096
              switch (_id) {
00097
              case 0: _t->scanStarted(); break;
              case 1: _t->scanFinished(); break;
00098
00099
              case 2: _t->hostFound((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00100
              case 3: _t->scanProgress((*reinterpret_cast< std::add_pointer_t<int>>(_a[1]))); break;
00101
              case 4: _t->scanError((*reinterpret_cast< std::add_pointer_t<QString>>(_a[1]))); break;
00102
              case 5: _t->processScanResults(); break;
00103
              default: ;
00104
              }
00105
00106
          if (_c == QMetaObject::IndexOfMethod) {
              if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)()>(_a, &NetworkScanner::scanStarted,
00107
     0))
00108
00109
              if (OtMocHelpers::indexOfMethod<void (NetworkScanner::*)()>(_a, &NetworkScanner::scanFinished,
     1))
00110
              if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)(const HostInfo & )>(_a,
00111
      &NetworkScanner::hostFound, 2))
                  return;
00112
              if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*)(int )>(_a,
00113
      &NetworkScanner::scanProgress, 3))
00114
                  return;
00115
              if (QtMocHelpers::indexOfMethod<void (NetworkScanner::*) (const QString & )>(.a,
      &NetworkScanner::scanError, 4))
00116
                  return;
00117
          }
00118 }
00119
00120 const QMetaObject *NetworkScanner::metaObject() const
00121 {
00122
          return QObject::d.ptr->metaObject ? QObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00123 }
00124
00125 void *NetworkScanner::qt_metacast(const char *_clname)
00126 {
00127
          if (!_clname) return nullptr;
00128
          if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN14NetworkScannerE_t>.strings))
00129
              return static_cast<void*>(this);
00130
          return QObject::qt_metacast(_clname);
00131 }
00132
00133 int NetworkScanner::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00134 {
00135
          _id = QObject::qt_metacall(_c, _id, _a);
00136
          if (_id < 0)
00137
              return _id;
00138
          if (_c == QMetaObject::InvokeMetaMethod) {
00139
              if (_id < 6)</pre>
00140
                  qt_static_metacall(this, _c, _id, _a);
              _id -= 6;
00141
00142
00143
          if (_c == OMetaObject::RegisterMethodArgumentMetaType) {
00144
              if (_id < 6)</pre>
00145
                  *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00146
              _id -= 6;
00147
00148
          return _id;
00149 }
00150
00151 // SIGNAL 0
00152 void NetworkScanner::scanStarted()
00153 {
00154
          QMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00155 }
00156
00157 // SIGNAL 1
00158 void NetworkScanner::scanFinished()
00159 {
00160
          QMetaObject::activate(this, &staticMetaObject, 1, nullptr);
00161 }
00162
```

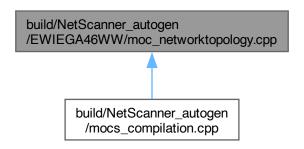
```
00163 // SIGNAL 2
00164 void NetworkScanner::hostFound(const HostInfo & _t1)
00165 {
          QMetaObject::activate<void>(this, &staticMetaObject, 2, nullptr, _t1);
00166
00167 }
00168
00169 // SIGNAL 3
00170 void NetworkScanner::scanProgress(int _t1)
00171 {
          QMetaObject::activate<void>(this, &staticMetaObject, 3, nullptr, _t1);
00172
00173 }
00174
00175 // SIGNAL 4
00176 void NetworkScanner::scanError(const QString & _t1)
00177 {
00178
          QMetaObject::activate<void>(this, &staticMetaObject, 4, nullptr, -t1);
00179 }
00180 QT_WARNING_POP
```

- 9.31 build/NetScanner_autogen/EWIEGA46WW/moc⊸ networkscanner.cpp.d 文件参考
- 9.32 NetScanner_autogen/JRIAJ772TK/moc_networkscanner.cpp.d 文件 参考
- 9.33 build/NetScanner₋autogen/EWIEGA46WW/moc₋⊸ networktopology.cpp 文件参考

```
#include "../../networktopology.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_networktopology.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19NetworkTopologyViewE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.33.1 宏定义说明

9.33.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.34 moc_networktopology.cpp

```
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'networktopology.h' doesn't include <QObject>."
00020 #elif O_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It"
00022 #error "cannot be used with the include files from this version of Qt."
00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef O_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 QT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace {
00034 struct qt_meta_tag_ZN19NetworkTopologyViewE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
     \label{lem:networkTopologyViewE:qt_create_metaobjectdata qt_meta_tag_ZN19NetworkTopologyViewE_t>() \\
00038 {
00039
          namespace QMC = QtMocConstants;
          QtMocHelpers::StringRefStorage qt_stringData {
00040
00041
              "NetworkTopologyView",
00042
              "nodeSelected",
00043
              "HostInfo",
00044
00045
              "host"
00046
         };
00047
          QtMocHelpers::UintData qt_methods {
00048
00049
              // Signal 'nodeSelected'
              00050
00051
                  \{ 0x800000000 | 3, 4 \},
00052
00053
00054
          QtMocHelpers::UintData qt_properties {
00055
00056
          QtMocHelpers::UintData qt_enums {
00057
          };
          return QtMocHelpers::metaObjectData<NetworkTopologyView,</pre>
00058
     qt_meta_tag_ZN19NetworkTopologyViewE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00059
                 qt_methods, qt_properties, qt_enums);
00060 }
00061 ^\circ_CONSTINIT const QMetaObject NetworkTopologyView::staticMetaObject = {
00062
          QMetaObject::SuperData::link<QGraphicsView::staticMetaObject>(),
          qt_staticMetaObjectStaticContent<qt_meta_taq_ZN19NetworkTopologyViewE_t>.stringdata,
00063
00064
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.data,
00065
          qt_static_metacall,
00066
          nullptr,
00067
          qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.metaTypes,
00068
         nullptr
00069 } };
00070
00071 void NetworkTopologyView::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00072 {
          auto *_t = static_cast<NetworkTopologyView *>(_o);
00073
00074
          if (_c == OMetaObject::InvokeMetaMethod) {
00075
             switch (_id) {
00076
              case 0: _t->nodeSelected((*reinterpret_cast< std::add.pointer_t<HostInfo>>(_a[1]))); break;
00077
              default: ;
00078
00079
00080
          if (_c == QMetaObject::IndexOfMethod) {
              if (QtMocHelpers::indexOfMethodvoid (NetworkTopologyView::*) (const HostInfo & )>(a,
00081
     &NetworkTopologyView::nodeSelected, 0))
00082
                 return;
00083
00084 }
00085
00086 const QMetaObject *NetworkTopologyView::metaObject() const
00087 {
00088
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00089 }
00090
00091 void *NetworkTopologyView::qt_metacast(const char *_clname)
00092 {
00093
          if (!-clname) return nullptr;
          if (!strcmp(_clname,
00094
     qt_staticMetaObjectStaticContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.strings))
00095
              return static_cast<void*>(this);
00096
          return QGraphicsView::qt_metacast(_clname);
00097 }
00098
```

```
00099 int NetworkTopologyView::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00100 {
00101
                 _id = QGraphicsView::qt_metacall(_c, _id, _a);
00102
                 if (_id < 0)</pre>
                        return _id:
00103
                 if (_c == QMetaObject::InvokeMetaMethod) {
00104
00105
                       if (_id < 1)</pre>
00106
                              qt_static_metacall(this, _c, _id, _a);
00107
                        _id -= 1;
00108
                 if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00109
00110
                       if (_id < 1)
00111
                              *reinterpret_cast<OMetaType *>(_a[0]) = OMetaType();
00112
                       _id -= 1;
00113
00114
                 return _id;
00115 }
00116
00117 // SIGNAL 0
00118 void NetworkTopologyView::nodeSelected(const HostInfo & _t1)
00119 {
00120
                 QMetaObject::activate<void>(this, &staticMetaObject, 0, nullptr, _t1);
00121 }
00122 namespace {
00123 struct qt_meta_tag_ZN15NetworkTopologyE_t {};
00124 } // unnamed namespace
00125
00126 template <> constexpr inline auto
         NetworkTopology::qt_create_metaobjectdata<qt_meta_tag_ZN15NetworkTopologyE_t>()
00127 {
00128
                 namespace OMC = OtMocConstants;
00129
                 QtMocHelpers::StringRefStorage qt_stringData {
00130
                        "NetworkTopology",
00131
                        "deviceSelected",
00132
                        "HostInfo",
00133
                        "host"
00134
00135
                };
00136
00137
                 QtMocHelpers::UintData qt_methods {
00138
                        // Signal 'deviceSelected'
                        00139
                              { 0x80000000 | 3, 4 },
00140
00141
                       }}),
00142
00143
                 QtMocHelpers::UintData qt_properties {
00144
00145
                 QtMocHelpers::UintData qt_enums {
00146
                 };
                 return OtMocHelpers::metaObjectData<NetworkTopology.
00147
          qt_meta_tag_ZN15NetworkTopologyE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00148
                              qt_methods, qt_properties, qt_enums);
00149 }
00150 Q_CONSTINIT const QMetaObject NetworkTopology::staticMetaObject = { {
00151
                 QMetaObject::SuperData::link<QWidget::staticMetaObject>(),
                 qt_staticMetaObjectStaticContent<qt_meta_tag_ZN15NetworkTopologyE_t>.stringdata,
00152
00153
                 qt_staticMetaObjectStaticContent<qt_meta_tag_ZN15NetworkTopologyE_t>.data,
00154
                 gt_static_metacall.
00155
                 nullptr,
00156
                 \verb|qt_staticMetaObjectRelocatingContent<| qt_meta_tag_ZN15NetworkTopologyE_t>.metaTypes| | topologyE_t>.metaTypes| | topo
00157
                nullptr
00158 } };
00159
00160 void NetworkTopology::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00161 {
00162
                 auto *_t = static_cast<NetworkTopology *>(_o);
                 if (_c == QMetaObject::InvokeMetaMethod) {
00163
                       switch (_id) {
00164
                       case 0: _t->deviceSelected((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00165
00166
                        default: ;
00167
00168
00169
                 if (_c == QMetaObject::IndexOfMethod) {
                        if (QtMocHelpers::indexOfMethodvoid (NetworkTopology::*)(const HostInfo & )>(_a,
00170
          &NetworkTopology::deviceSelected, 0))
00171
                             return:
00172
00173 }
00174
00175 const QMetaObject *NetworkTopology::metaObject() const
00176 {
00177
                 return QObject::d.ptr->metaObject ? QObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00178 }
00179
00180 void *NetworkTopology::qt_metacast(const char *_clname)
00181 {
00182
                 if (!_clname) return nullptr:
```

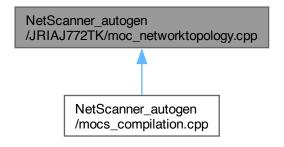
```
if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN15NetworkTopologyE_t>.strings))
00184
                      static_cast<void*>(this);
00185
          return QWidget::qt_metacast(_clname);
00186 }
00187
00188 int NetworkTopology::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00189 {
00190
           _id = QWidget::qt_metacall(_c, _id, _a);
00191
          if (_id < 0)
          return _id;
if (_c == QMetaObject::InvokeMetaMethod) {
00192
00193
00194
              if (_id < 1)</pre>
00195
                  qt_static_metacall(this, _c, _id, _a);
00196
00197
00198
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00199
               if (_id < 1)</pre>
00200
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00201
               _id -= 1;
00202
00203
          return _id;
00204 }
00205
00206 // SIGNAL 0
00207 void NetworkTopology::deviceSelected(const HostInfo & _t1)
00209
          QMetaObject::activate<void>(this, &staticMetaObject, 0, nullptr, _t1);
00210 }
00211 OT_WARNING_POP
```

9.35 NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp 文件 参考

```
#include "../../networktopology.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
moc_networktopology.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN19NetworkTopologyViewE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

#define Q_CONSTINIT

9.35.1 宏定义说明

9.35.1.1 Q_CONSTINIT

#define O_CONSTINIT

9.36 moc_networktopology.cpp

```
00002 ** Meta object code from reading C++ file 'networktopology.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00007 *******
80000
00009 #include "../../networktopology.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <QtCore/qtmochelpers.h>
00013
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'networktopology.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It" 00022 #error "cannot be used with the include files from this version of Qt." 00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 QT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace \{
00034 struct qt_meta_tag_ZN19NetworkTopologyViewE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
       NetworkTopologyView::qt_create_metaobjectdata<qt_meta_tag_ZN19NetworkTopologyViewE_t>()
00038 {
00039
           namespace QMC = QtMocConstants;
00040
           QtMocHelpers::StringRefStorage qt_stringData {
00041
                "NetworkTopologyView",
00042
                "nodeSelected",
```

```
00044
              "HostInfo",
00045
              "host"
00046
          };
00047
00048
          QtMocHelpers::UintData qt_methods {
    // Signal 'nodeSelected'
00049
00050
              00051
                  \{0x800000000 | 3, 4\},
00052
00053
00054
          QtMocHelpers::UintData qt_properties {
00055
00056
          OtMocHelpers::UintData gt_enums {
00057
00058
           ceturn QtMocHelpers::metaObjectData<NetworkTopologyView,</pre>
      qt_meta_tag_ZN19NetworkTopologyViewE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00059
                  qt_methods, qt_properties, qt_enums);
00060 }
00061 Q_CONSTINIT const QMetaObject NetworkTopologyView::staticMetaObject = { {
00062
          QMetaObject::SuperData::link<QGraphicsView::staticMetaObject>(),
00063
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.stringdata,
00064
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.data,
00065
          qt_static_metacall,
00066
          nullptr,
00067
          qt_staticMetaObjectRelocatingContent<qt_meta_taq_ZN19NetworkTopologyViewE_t>.metaTypes,
00068
          nullptr
00069 } };
00070
00071 void NetworkTopologyView::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00072 {
00073
          auto *_t = static_cast<NetworkTopologyView *>(_o);
00074
          if (_c == QMetaObject::InvokeMetaMethod) {
00075
              switch (_id) {
00076
              case 0: _t->nodeSelected((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00077
              default: ;
00078
              }
00079
00080
          if (_c == QMetaObject::IndexOfMethod) {
00081
              if (QtMocHelpers::indexOfMethod<void (NetworkTopologyView::*)(const HostInfo & )>(_a,
      &NetworkTopologyView::nodeSelected, 0))
00082
                  return;
00083
          }
00084 }
00085
00086 const QMetaObject *NetworkTopologyView::metaObject() const
00087 {
00088
          return QObject::d.ptr->metaObject ? QObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00089 }
00090
00091 void *NetworkTopologyView::qt_metacast(const char *_clname)
00092 {
00093
          if (!_clname) return nullptr;
00094
          if (!strcmp(_clname,
      qt_staticMetaObjectStaticContent<qt_meta_tag_ZN19NetworkTopologyViewE_t>.strings))
00095
              return static_cast<void*>(this);
00096
          return OGraphicsView::gt_metacast(_clname);
00097 }
00098
00099 int NetworkTopologyView::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00100 {
00101
          _id = QGraphicsView::qt_metacall(_c, _id, _a);
00102
          if (_id < 0)</pre>
00103
              return _id;
          if (_c == QMetaObject::InvokeMetaMethod) {
00104
              if (_id < 1)</pre>
00105
00106
                  qt_static_metacall(this, _c, _id, _a);
00107
              _id -= 1;
00108
00109
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00110
              if (_id < 1)</pre>
00111
                  *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
              _id -= 1;
00112
00113
          return _id:
00114
00115 }
00116
00117 // SIGNAL 0
00118 void NetworkTopologyView::nodeSelected(const HostInfo & _t1)
00119 {
00120
          OMetaObject::activate<void>(this, &staticMetaObject, 0, nullptr, t1);
00121 }
00122 namespace {
00123 struct qt_meta_tag_ZN15NetworkTopologyE_t {};
00124 } // unnamed namespace
00125
00126 template <> constexpr inline auto
      NetworkTopology::gt_create_metaobjectdata<gt_meta_tag_ZN15NetworkTopologyE_t>()
```

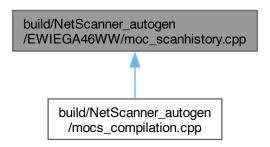
```
00127 {
00128
          namespace QMC = QtMocConstants;
00129
          QtMocHelpers::StringRefStorage qt_stringData {
00130
               "NetworkTopology",
00131
               "deviceSelected",
00132
              "HostInfo",
00133
00134
              "host"
00135
          };
00136
          OtMocHelpers::UintData qt_methods {
00137
               // Signal 'deviceSelected'
00138
00139
              QtMocHelpers::SignalData<void(const HostInfo &)>(1, 2, QMC::AccessPublic, QMetaType::Void, {{
00140
                  \{0x800000000 | 3, 4\},
              }}),
00141
00142
          QtMocHelpers::UintData qt_properties {
00143
00144
00145
          QtMocHelpers::UintData qt_enums {
00146
          };
          return QtMocHelpers::metaObjectData<NetworkTopology,</pre>
00147
      qt_meta_tag_ZN15NetworkTopologyE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00148
                  qt_methods, qt_properties, qt_enums);
00149 }
00150 Q_CONSTINIT const QMetaObject NetworkTopology::staticMetaObject = { {
          QMetaObject::SuperData::link<QWidget::staticMetaObject>(),
00151
00152
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN15NetworkTopologyE_t>.stringdata,
00153
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN15NetworkTopologyE_t>.data,
00154
          qt_static_metacall,
00155
          nullptr,
00156
          gt_staticMetaObjectRelocatingContent<gt_meta_tag_ZN15NetworkTopologyE_t>.metaTypes,
00157
          nullptr
00158 } };
00159
00160 void NetworkTopology::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00161 {
00162
          auto *_t = static_cast<NetworkTopology *>(_o);
          if (_c == QMetaObject::InvokeMetaMethod) {
00163
00164
              switch (_id) {
00165
              case 0: _t->deviceSelected((*reinterpret_cast< std::add_pointer_t<HostInfo>>(_a[1]))); break;
00166
              default: ;
00167
00168
00169
          if (_c == QMetaObject::IndexOfMethod) {
              if (QtMocHelpers::indexOfMethod<void (NetworkTopology::*)(const HostInfo & )>(_a,
     &NetworkTopology::deviceSelected, 0))
00171
                  return;
00172
          }
00173 }
00174
00175 const QMetaObject *NetworkTopology::metaObject() const
00176 {
00177
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00178 }
00179
00180 void *NetworkTopology::qt_metacast(const char *_clname)
00181 {
00182
          if (!-clname) return nullptr;
00183
          if (!strcmp(.clname, qt.staticMetaObjectStaticContent<qt.meta.tag.ZN15NetworkTopologyE.t>.strings))
00184
               return static_cast<void*>(this);
00185
          return QWidget::qt_metacast(_clname);
00186 }
00187
00188 int NetworkTopology::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00189 {
00190
          _id = QWidget::qt_metacall(_c, _id, _a);
00191
          if (_id < 0)</pre>
00192
              return _id:
00193
          if (-c == QMetaObject::InvokeMetaMethod) {
00194
              if (_id < 1)</pre>
00195
                  qt_static_metacall(this, _c, _id, _a);
00196
              -id -= 1;
00197
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00198
00199
              if (_id < 1)
00200
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00201
              _id -= 1;
00202
00203
          return _id:
00204 }
00205
00207 void NetworkTopology::deviceSelected(const HostInfo & _t1)
00208 {
00209
          QMetaObject::activate<void>(this, &staticMetaObject, 0, nullptr, Lt1);
00210
00211 QT_WARNING_POP
```

- 9.37 build/NetScanner_autogen/EWIEGA46WW/moc.⊸ networktopology.cpp.d 文件参考
- 9.38 NetScanner_autogen/JRIAJ772TK/moc_networktopology.cpp.d 文件 参考
- 9.39 build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp 文件参考

```
#include "../../scanhistory.h" #include <QtCore/qmetatype.h> #include <QtCore/qtmochelpers.h> #include <memory> #include <QtCore/qxptype_traits.h> moc_scanhistory.cpp 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11ScanHistoryE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

#define Q_CONSTINIT

9.39.1 宏定义说明

9.39.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.40 moc_scanhistory.cpp

```
00001 /***************************
00002 ** Meta object code from reading C++ file 'scanhistory.h'
00004 ** Created by: The Qt Meta Object Compiler version 69 (Qt 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00007 ************
00008
00009 #include "../../scanhistory.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <QtCore/qtmochelpers.h>
00013
00014 #include <memory>
00015
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'scanhistory.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It"
00022 #error "cannot be used with the include files from this version of Qt."
00023 #error "(The moc has changed too much.)"
00024 #endif
00025
00026 #ifndef O_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 QT_WARNING_PUSH
00031 OT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace {
00034 struct qt_meta_tag_ZN11ScanHistoryE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      {\tt ScanHistory::qt\_create\_metaobjectdata<qt\_meta\_tag\_ZN11ScanHistoryE\_t>()}
00038 {
00039
          namespace QMC = QtMocConstants;
00040
          QtMocHelpers::StringRefStorage qt_stringData {
00041
              "ScanHistory",
              "historyChanged",
00042
00043
00044
          };
00045
00046
          QtMocHelpers::UintData qt_methods {
00047
              // Signal 'historyChanged'
00048
              QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00049
00050
          QtMocHelpers::UintData qt_properties {
00051
          QtMocHelpers::UintData qt_enums {
00053
00054
           eturn QtMocHelpers::metaObjectData<ScanHistory,
      qt_meta_tag_ZN11ScanHistoryE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00055
                  qt_methods, qt_properties, qt_enums);
00056 }
00057 Q_CONSTINIT const QMetaObject ScanHistory::staticMetaObject = { {
          QMetaObject::SuperData::link<QObject::staticMetaObject>(),
```

```
qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.stringdata,
00060
          qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.data,
          qt_static_metacall,
00061
00062
          nullptr,
00063
          qt_staticMetaObjectRelocatingContent<qt_meta_taq_ZN11ScanHistoryE_t>.metaTypes,
00064
          nullptr
00065 } };
00066
00067 void ScanHistory::qt_static_metacall(QObject *.o, QMetaObject::Call _c, int _id, void **_a)
00068 {
00069
          auto *_t = static_cast<ScanHistory *>(_o);
00070
          if (_c == QMetaObject::InvokeMetaMethod) {
00071
              switch (_id) {
00072
              case 0: _t->historyChanged(); break;
00073
               default: ;
00074
00075
00076
          if (_c == OMetaObject::IndexOfMethod) {
              if (QtMocHelpers::indexOfMethod<void (ScanHistory::*)()>(.a, &ScanHistory::historyChanged, 0))
00078
                  return;
00079
00080 }
00081
00082 const OMetaObject *ScanHistory::metaObject() const
00083 {
          return QObject::d.ptr->metaObject ? QObject::d.ptr->dynamicMetaObject() : &staticMetaObject;
00085 }
00086
00087 void *ScanHistory::qt_metacast(const char *_clname)
00088 {
00089
           if (!-clname) return nullptr:
00090
          if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.strings))
00091
               return static_cast<void*>(this);
00092
          return QObject::qt_metacast(_clname);
00093 }
00094
00095 int ScanHistory::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00097
          _id = QObject::qt_metacall(_c, _id, _a);
00098
          if (_id < 0)</pre>
00099
               return _id;
          if (_c == QMetaObject::InvokeMetaMethod) {
00100
00101
              if (_id < 1)
00102
                  qt_static_metacall(this, _c, _id, _a);
00103
00104
00105
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00106
              if (_id < 1)</pre>
00107
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00108
              _id -= 1;
00109
00110
          return _id;
00111 }
00112
00113 // SIGNAL 0
00114 void ScanHistory::historyChanged()
          QMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00116
00117 }
00118 OT_WARNING_POP
```

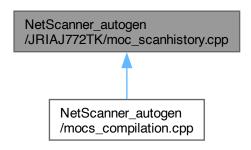
9.41 NetScanner_autogen/JRIAJ772TK/moc_scanhistory.cpp 文件参考

```
#include "../../scanhistory.h"
#include <QtCore/qmetatype.h>
#include <QtCore/qtmochelpers.h>
#include <memory>
#include <QtCore/qxptype_traits.h>
```

moc_scanhistory.cpp 的引用(Include)关系图:



此图展示该文件被哪些文件直接或间接地引用了:



类

• struct QT_WARNING_DISABLE_DEPRECATED::qt_meta_tag_ZN11ScanHistoryE_t

命名空间

namespace QT_WARNING_DISABLE_DEPRECATED

宏定义

• #define Q_CONSTINIT

9.41.1 宏定义说明

9.41.1.1 Q_CONSTINIT

#define Q_CONSTINIT

9.42 moc_scanhistory.cpp

```
00002 ** Meta object code from reading C++ file 'scanhistory.h'
00003 **
00004 ** Created by: The Ot Meta Object Compiler version 69 (Ot 6.9.0)
00005 **
00006 ** WARNING! All changes made in this file will be lost!
00008
00009 #include "../../scanhistory.h"
00010 #include <QtCore/qmetatype.h>
00011
00012 #include <OtCore/gtmochelpers.h>
00014 #include <memory>
00015
00016
00017 #include <QtCore/qxptype_traits.h>
00018 #if !defined(Q_MOC_OUTPUT_REVISION)
00019 #error "The header file 'scanhistory.h' doesn't include <QObject>."
00020 #elif Q_MOC_OUTPUT_REVISION != 69
00021 #error "This file was generated using the moc from 6.9.0. It" 00022 #error "cannot be used with the include files from this version of Qt." 00023 #error "(The moc has changed too much.)"
00024 #endif
00026 #ifndef Q_CONSTINIT
00027 #define Q_CONSTINIT
00028 #endif
00029
00030 OT_WARNING_PUSH
00031 QT_WARNING_DISABLE_DEPRECATED
00032 QT_WARNING_DISABLE_GCC("-Wuseless-cast")
00033 namespace \{
00034 struct qt_meta_tag_ZN11ScanHistoryE_t {};
00035 } // unnamed namespace
00036
00037 template <> constexpr inline auto
      ScanHistory::qt_create_metaobjectdata<qt_meta_tag_ZN11ScanHistoryE_t>()
00038 {
00039
           namespace QMC = QtMocConstants;
00040
           QtMocHelpers::StringRefStorage qt_stringData {
00041
               "ScanHistory",
               "historyChanged",
00042
00043
00044
          };
00045
           QtMocHelpers::UintData qt_methods {
    // Signal 'historyChanged'
00046
00047
00048
               QtMocHelpers::SignalData<void()>(1, 2, QMC::AccessPublic, QMetaType::Void),
00049
00050
           QtMocHelpers::UintData qt_properties {
00051
00052
           QtMocHelpers::UintData qt_enums {
00053
           return OtMocHelpers::metaObjectData<ScanHistory,
00054
      qt_meta_tag_ZN11ScanHistoryE_t>(QMC::MetaObjectFlag{}, qt_stringData,
00055
                   qt_methods, qt_properties, qt_enums);
00056 }
00057 Q_CONSTINIT const QMetaObject ScanHistory::staticMetaObject = { {
00058
           QMetaObject::SuperData::link<QObject::staticMetaObject>(),
           qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.stringdata,
00059
00060
           qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.data,
00061
           qt_static_metacall,
00062
           nullptr,
00063
           qt_staticMetaObjectRelocatingContent<qt_meta_tag_ZN11ScanHistoryE_t>.metaTypes,
00064
          nullptr
00065 } };
00066
00067 void ScanHistory::qt_static_metacall(QObject *_o, QMetaObject::Call _c, int _id, void **_a)
00068 {
00069
           auto *_t = static_cast<ScanHistory *>(_o);
00070
           if (_c == QMetaObject::InvokeMetaMethod) {
00071
               switch (.id) {
case 0: _t->historyChanged(); break;
00072
00073
               default: ;
00074
00075
00076
           if (_c == QMetaObject::IndexOfMethod) {
00077
               if (QtMocHelpers::indexOfMethod<void (ScanHistory::*)()>(.a, &ScanHistory::historyChanged, 0))
00078
00079
           }
00080 }
```

```
00082 const QMetaObject *ScanHistory::metaObject() const
00083 {
00084
          return QObject::d_ptr->metaObject ? QObject::d_ptr->dynamicMetaObject() : &staticMetaObject;
00085 }
00086
00087 void *ScanHistory::qt_metacast(const char *_clname)
00088 {
00089
          if (!_clname) return nullptr;
00090
          if (!strcmp(_clname, qt_staticMetaObjectStaticContent<qt_meta_tag_ZN11ScanHistoryE_t>.strings))
00091
              return static_cast<void*>(this);
00092
          return QObject::qt_metacast(_clname);
00093 }
00094
00095 int ScanHistory::qt_metacall(QMetaObject::Call _c, int _id, void **_a)
00096 {
00097
          _id = QObject::qt_metacall(_c, _id, _a);
00098
          if (_id < 0)</pre>
              return _id;
00100
          if (_c == QMetaObject::InvokeMetaMethod) {
00101
              if (_id < 1)</pre>
00102
                  qt_static_metacall(this, _c, _id, _a);
              _id -= 1;
00103
00104
00105
          if (_c == QMetaObject::RegisterMethodArgumentMetaType) {
00106
              if (_id < 1)</pre>
00107
                   *reinterpret_cast<QMetaType *>(_a[0]) = QMetaType();
00108
              _id -= 1;
          }
00109
00110
          return _id:
00111 }
00112
00113 // SIGNAL 0
00114 void ScanHistory::historyChanged()
00115 {
          QMetaObject::activate(this, &staticMetaObject, 0, nullptr);
00116
00117
```

9.43 build/NetScanner_autogen/EWIEGA46WW/moc_scanhistory.cpp.d 文件参考

9.44 NetScanner_autogen/JRIAJ772TK/moc_scanhistory.cpp.d 文件参考

9.45 build/NetScanner_autogen/moc_predefs.h 文件参考

宏定义

- #define QT_CHARTS_LIB 1
- #define QT_CHARTS_USE_NAMESPACE 1
- #define QT_CONCURRENT_LIB 1
- #define QT_CORE_LIB 1
- #define QT_GUI_LIB 1
- #define QT_NETWORK_LIB 1
- #define QT_NO_DEBUG 1
- #define QT_OPENGLWIDGETS_LIB 1
- #define QT_OPENGL_LIB 1
- #define QT_WIDGETS_LIB 1
- #define SIZEOF_DPTR (sizeof(void*))
- #define TARGET_IPHONE_SIMULATOR 0
- #define TARGET_OS_ARROW 1
- #define TARGET_OS_BRIDGE 0
- #define TARGET_OS_DRIVERKIT 0
- #define TARGET_OS_EMBEDDED 0

- #define TARGET_OS_IOS 0
- #define TARGET_OS_IOSMAC 0
- #define TARGET_OS_IPHONE 0
- #define TARGET_OS_LINUX 0
- #define TARGET_OS_MAC 1
- #define TARGET_OS_MACCATALYST 0
- #define TARGET_OS_NANO 0
- #define TARGET_OS_OSX 1
- #define TARGET_OS_SIMULATOR 0
- #define TARGET_OS_TV 0
- #define TARGET_OS_UIKITFORMAC 0
- #define TARGET_OS_UNIX 0
- #define TARGET_OS_VISION 0
- #define TARGET_OS_WATCH 0
- #define TARGET_OS_WIN32 0
- #define TARGET_OS_WINDOWS 0
- #define TARGET_OS_XR 0
- #define _LP64 1
- #define __AARCH64EL__ 1
- #define __AARCH64_CMODEL_SMALL__ 1
- #define __AARCH64_SIMD__ 1
- #define __APPLE_CC__ 6000
- #define __APPLE__ 1
- #define __ARM64_ARCH_8__ 1
- #define __ARM_64BIT_STATE 1
- #define __ARM_ACLE 200
- #define __ARM_ALIGN_MAX_STACK_PWR 4
- #define __ARM_ARCH 8
- #define __ARM_ARCH_8_3__ 1
- #define __ARM_ARCH_8_4__ 1
- #define __ARM_ARCH_8_5__ 1
- #define __ARM_ARCH_ISA_A64 1
- #define __ARM_ARCH_PROFILE 'A'
- #define __ARM_FEATURE_AES 1
- #define __ARM_FEATURE_ATOMICS 1
- #define __ARM_FEATURE_BTI 1
- #define __ARM_FEATURE_CLZ 1
- #define __ARM_FEATURE_COMPLEX 1
- #define __ARM_FEATURE_CRC32 1
- #define __ARM_FEATURE_CRYPTO 1
- #define __ARM_FEATURE_DIRECTED_ROUNDING 1
- #define __ARM_FEATURE_DIV 1
- #define __ARM_FEATURE_DOTPROD 1
- #define __ARM_FEATURE_FMA 1
- #define __ARM_FEATURE_FP16_FML 1
- #define __ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1
- #define __ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1
- #define __ARM_FEATURE_FRINT 1
- #define __ARM_FEATURE_IDIV 1
- #define __ARM_FEATURE_JCVT 1
- #define __ARM_FEATURE_LDREX 0xF
- #define __ARM_FEATURE_NUMERIC_MAXMIN 1
- #define __ARM_FEATURE_PAUTH 1
- #define __ARM_FEATURE_QRDMX 1
- #define __ARM_FEATURE_RCPC 1

- #define __ARM_FEATURE_SHA2 1
- #define __ARM_FEATURE_SHA3 1
- #define __ARM_FEATURE_SHA512 1
- #define __ARM_FEATURE_UNALIGNED 1
- #define __ARM_FP 0xE
- #define __ARM_FP16_ARGS 1
- #define __ARM_FP16_FORMAT_IEEE 1
- #define __ARM_NEON 1
- #define __ARM_NEON_FP 0xE
- #define __ARM_NEON__ 1
- #define __ARM_PCS_AAPCS64 1
- #define __ARM_SIZEOF_MINIMAL_ENUM 4
- #define __ARM_SIZEOF_WCHAR_T 4
- #define __ARM_STATE_ZA 1
- #define __ARM_STATE_ZT0 1
- #define __ATOMIC_ACQUIRE 2
- #define __ATOMIC_ACQ_REL 4
- #define __ATOMIC_CONSUME 1
- #define __ATOMIC_RELAXED 0
- #define __ATOMIC_RELEASE 3
- #define __ATOMIC_SEQ_CST 5
- #define __BIGGEST_ALIGNMENT__ 8
- #define __BITINT_MAXWIDTH__ 128
- #define __BLOCKS__ 1
- #define __BOOL_WIDTH__ 8
- #define __BYTE_ORDER__ _ORDER_LITTLE_ENDIAN__
- #define __CHAR16_TYPE__ unsigned short
- #define __CHAR32_TYPE__ unsigned int
- #define __CHAR_BIT__ 8
- #define __CLANG_ATOMIC_BOOL_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR_LOCK_FREE 2
- #define __CLANG_ATOMIC_INT_LOCK_FREE 2
- #define __CLANG_ATOMIC_LLONG_LOCK_FREE 2
- #define __CLANG_ATOMIC_LONG_LOCK_FREE 2
- #define __CLANG_ATOMIC_POINTER_LOCK_FREE 2
- #define __CLANG_ATOMIC_SHORT_LOCK_FREE 2
- #define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2
- #define __CONSTANT_CFSTRINGS__ 1
- #define __DBL_DECIMAL_DIG__ 17
- #define __DBL_DENORM_MIN__ 4.9406564584124654e-324
- #define __DBL_DIG__ 15
- #define __DBL_EPSILON__ 2.2204460492503131e-16
- #define __DBL_HAS_DENORM__ 1
- #define __DBL_HAS_INFINITY__ 1
- #define __DBL_HAS_QUIET_NAN__ 1
- #define __DBL_MANT_DIG__ 53
- #define __DBL_MAX_10_EXP__ 308
- #define __DBL_MAX_EXP__ 1024
- #define __DBL_MAX__ 1.7976931348623157e+308
- #define __DBL_MIN_10_EXP__ (-307)
- #define __DBL_MIN_EXP__ (-1021)
- #define __DBL_MIN__ 2.2250738585072014e-308
- #define __DBL_NORM_MAX__ 1.7976931348623157e+308

- #define __DECIMAL_DIG__ _LDBL_DECIMAL_DIG__
 #define __DEPRECATED 1
- #define __DYNAMIC__ 1
- #define __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__ 150000
- #define __ENVIRONMENT_OS_VERSION_MIN_REQUIRED__ 150000
- #define __EXCEPTIONS 1
- #define __FINITE_MATH_ONLY__ 0
- #define __FLT16_DECIMAL_DIG__ 5
- #define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16
- #define __FLT16_DIG__ 3
- #define __FLT16_EPSILON__ 9.765625e-4F16
- #define __FLT16_HAS_DENORM__ 1
- #define __FLT16_HAS_INFINITY__ 1
- #define __FLT16_HAS_QUIET_NAN__ 1
- #define __FLT16_MANT_DIG__ 11
- #define __FLT16_MAX_10_EXP__ 4
- #define __FLT16_MAX_EXP__ 16
- #define __FLT16_MAX__ 6.5504e+4F16
- #define __FLT16_MIN_10_EXP__ (-4)
- #define __FLT16_MIN_EXP__ (-13)
- #define __FLT16_MIN__ 6.103515625e-5F16
- #define __FLT16_NORM_MAX__ 6.5504e+4F16
- #define __FLT_DECIMAL_DIG__ 9
- #define __FLT_DENORM_MIN__ 1.40129846e-45F
- #define __FLT_DIG__ 6
- #define __FLT_EPSILON__ 1.19209290e-7F
- #define __FLT_HAS_DENORM__ 1
- #define __FLT_HAS_INFINITY__ 1
- #define __FLT_HAS_QUIET_NAN__ 1
- #define __FLT_MANT_DIG__ 24
- #define __FLT_MAX_10_EXP__ 38
- #define __FLT_MAX_EXP__ 128
- #define __FLT_MAX__ 3.40282347e+38F
- #define __FLT_MIN_10_EXP__ (-37)
- #define __FLT_MIN_EXP__ (-125)
- #define __FLT_MIN__ 1.17549435e-38F
- #define __FLT_NORM_MAX__ 3.40282347e+38F
- #define __FLT_RADIX__ 2
- #define __FPCLASS_NEGINF 0x0004
- #define __FPCLASS_NEGNORMAL 0x0008
- #define __FPCLASS_NEGSUBNORMAL 0x0010
- #define __FPCLASS_NEGZERO 0x0020
- #define __FPCLASS_POSINF 0x0200
- #define __FPCLASS_POSNORMAL 0x0100
- #define __FPCLASS_POSSUBNORMAL 0x0080
- #define __FPCLASS_POSZERO 0x0040
- #define __FPCLASS_QNAN 0x0002
- #define __FPCLASS_SNAN 0x0001
- #define __FP_FAST_FMA 1
- #define __FP_FAST_FMAF 1
- #define __GCC_ASM_FLAG_OUTPUTS__ 1
- #define __GCC_ATOMIC_BOOL_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR_LOCK_FREE 2

- #define __GCC_ATOMIC_INT_LOCK_FREE 2
- #define __GCC_ATOMIC_LLONG_LOCK_FREE 2
- #define __GCC_ATOMIC_LONG_LOCK_FREE 2
- #define __GCC_ATOMIC_POINTER_LOCK_FREE 2
- #define __GCC_ATOMIC_SHORT_LOCK_FREE 2
- #define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1
- #define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2
- #define __GCC_CONSTRUCTIVE_SIZE 64
- #define __GCC_DESTRUCTIVE_SIZE 64
- #define __GCC_HAVE_DWARF2_CFI_ASM 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1
- #define __GLIBCXX_BITSIZE_INT_N_0 128
- #define __GLIBCXX_TYPE_INT_N_0 __int128
- #define __GNUC_GNU_INLINE__ 1
- #define __GNUC_MINOR__ 2
- #define __GNUC_PATCHLEVEL__ 1
- #define __GNUC__ 4
- #define __GNUG__ 4
- #define __GXX_ABI_VERSION 1002
- #define __GXX_EXPERIMENTAL_CXX0X__ 1
- #define __GXX_RTTI 1
- #define __GXX_WEAK__ 1
- #define __HAVE_FUNCTION_MULTI_VERSIONING 1
- #define __INT16_C_SUFFIX__
- #define __INT16_FMTd__ "hd"
- #define __INT16_FMTi__ "hi"
- #define __INT16_MAX__ 32767
- #define __INT16_TYPE__ short
- #define __INT32_C_SUFFIX__
- #define __INT32_FMTd__ "d"
- #define __INT32_FMTi__ "i"
- #define __INT32_MAX__ 2147483647
- #define __INT32_TYPE__ int
- #define __INT64_C_SUFFIX__ LL
- #define __INT64_FMTd__ "IId"
- #define __INT64_FMTi__ "Ili"
- #define __INT64_MAX__ 9223372036854775807LL
- #define __INT64_TYPE__ long long int
- #define __INT8_C_SUFFIX_.
- #define __INT8_FMTd__ "hhd"
- #define __INT8_FMTi__ "hhi"
- #define __INT8_MAX__ 127
- #define __INT8_TYPE__ signed char
- #define __INTMAX_C_SUFFIX__ L
- #define __INTMAX_FMTd__ "Id"
- #define __INTMAX_FMTi__ "li"
- #define __INTMAX_MAX__ 9223372036854775807L
- #define __INTMAX_TYPE__ long int
- #define __INTMAX_WIDTH__ 64
- #define __INTPTR_FMTd__ "Id"
- #define __INTPTR_FMTi__ "li"

 #define __INTPTR_MAX__ 9223372036854775807L • #define __INTPTR_TYPE__ long int #define __INTPTR_WIDTH__ 64 • #define __INT_FAST16_FMTd__ "hd" • #define __INT_FAST16_FMTi__ "hi" #define __INT_FAST16_MAX__ 32767 #define __INT_FAST16_TYPE__ short #define __INT_FAST16_WIDTH__ 16 • #define __INT_FAST32_FMTd__ "d" #define __INT_FAST32_FMTi__ "i" #define __INT_FAST32_MAX__ 2147483647 #define __INT_FAST32_TYPE__ int #define __INT_FAST32_WIDTH__ 32 #define __INT_FAST64_FMTd__ "IId" #define __INT_FAST64_FMTi__ "Ili" #define __INT_FAST64_MAX__ 9223372036854775807LL #define __INT_FAST64_TYPE__ long long int #define __INT_FAST64_WIDTH__ 64 #define __INT_FAST8_FMTd__ "hhd" #define __INT_FAST8_FMTi__ "hhi" #define __INT_FAST8_MAX__ 127 • #define __INT_FAST8_TYPE__ signed char #define __INT_FAST8_WIDTH__ 8 #define __INT_LEAST16_FMTd__ "hd" #define __INT_LEAST16_FMTi__ "hi" #define __INT_LEAST16_MAX__ 32767 #define __INT_LEAST16_TYPE__ short #define __INT_LEAST16_WIDTH__ 16 #define __INT_LEAST32_FMTd__ "d" #define __INT_LEAST32_FMTi__ "i" #define __INT_LEAST32_MAX__ 2147483647 #define __INT_LEAST32_TYPE__ int #define __INT_LEAST32_WIDTH__ 32 #define __INT_LEAST64_FMTd__ "IId" #define __INT_LEAST64_FMTi__ "Ili" #define __INT_LEAST64_MAX__ 9223372036854775807LL #define __INT_LEAST64_TYPE__ long long int #define __INT_LEAST64_WIDTH__ 64 #define __INT_LEAST8_FMTd__ "hhd" • #define __INT_LEAST8_FMTi__ "hhi" #define __INT_LEAST8_MAX__ 127 • #define __INT_LEAST8_TYPE__ signed char #define __INT_LEAST8_WIDTH__ 8 #define __INT_MAX__ 2147483647 • #define __INT_WIDTH__ 32 #define __LDBL_DECIMAL_DIG__ 17 #define __LDBL_DENORM_MIN__ 4.9406564584124654e-324L #define __LDBL_DIG__ 15 #define __LDBL_EPSILON__ 2.2204460492503131e-16L #define __LDBL_HAS_DENORM__ 1 • #define __LDBL_HAS_INFINITY__ 1

#define _LDBL_HAS_QUIET_NAN__ 1
#define _LDBL_MANT_DIG__ 53
#define _LDBL_MAX_10_EXP__ 308
#define _LDBL_MAX_EXP__ 1024

- #define __LDBL_MAX__ 1.7976931348623157e+308L
- #define __LDBL_MIN_10_EXP__ (-307)
- #define __LDBL_MIN_EXP__ (-1021)
- #define _LDBL_MIN_ 2.2250738585072014e-308L
- #define __LDBL_NORM_MAX__ 1.7976931348623157e+308L
- #define __LITTLE_ENDIAN__ 1
- #define __LLONG_WIDTH__ 64
- #define __LONG_LONG_MAX__ 9223372036854775807LL
- #define __LONG_MAX__ 9223372036854775807L
- #define __LONG_WIDTH__ 64
- #define __LP64__ 1
- #define __MACH__ 1
- #define __MEMORY_SCOPE_DEVICE 1
- #define __MEMORY_SCOPE_SINGLE 4
- #define __MEMORY_SCOPE_SYSTEM 0
- #define __MEMORY_SCOPE_WRKGRP 2
- #define __MEMORY_SCOPE_WVFRNT 3
- #define __NO_INLINE__ 1
- #define __NO_MATH_ERRNO__ 1
- #define __OBJC_BOOL_IS_BOOL 1
- #define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3
- #define __OPENCL_MEMORY_SCOPE_DEVICE 2
- #define __OPENCL_MEMORY_SCOPE_SUB_GROUP 4
- #define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1
- #define __OPENCL_MEMORY_SCOPE_WORK_ITEM 0
- #define __ORDER_BIG_ENDIAN__ 4321
- #define __ORDER_LITTLE_ENDIAN__ 1234
- #define __ORDER_PDP_ENDIAN__ 3412
- #define __PIC__ 2
- #define __POINTER_WIDTH__ 64
- #define __PRAGMA_REDEFINE_EXTNAME 1
- #define __PTRDIFF_FMTd__ "Id"
- #define __PTRDIFF_FMTi__ "li"
- #define __PTRDIFF_MAX__ 9223372036854775807L
- #define __PTRDIFF_TYPE__ long int
- #define __PTRDIFF_WIDTH__ 64
- #define __REGISTER_PREFIX__
- #define __SCHAR_MAX__ 127
- #define __SHRT_MAX__ 32767
- #define __SHRT_WIDTH__ 16
- #define __SIG_ATOMIC_MAX__ 2147483647
- #define __SIG_ATOMIC_WIDTH__ 32
- #define __SIZEOF_DOUBLE__ 8
- #define __SIZEOF_FLOAT__ 4
- #define __SIZEOF_INT128__ 16
- #define __SIZEOF_INT__ 4
- #define __SIZEOF_LONG_DOUBLE__ 8
- #define __SIZEOF_LONG_LONG__ 8
- #define __SIZEOF_LONG__ 8
- #define __SIZEOF_POINTER__ 8
- #define __SIZEOF_PTRDIFF_T__ 8
- #define __SIZEOF_SHORT__ 2
- #define __SIZEOF_SIZE_T__ 8
- #define __SIZEOF_WCHAR_T__ 4
- #define __SIZEOF_WINT_T__ 4

```
    #define __SIZE_FMTX__ "IX"

    #define __SIZE_FMTo__ "lo"

• #define __SIZE_FMTu__ "lu"
• #define __SIZE_FMTx__ "lx"

    #define __SIZE_MAX__ 18446744073709551615UL

    #define __SIZE_TYPE__ long unsigned int

• #define __SIZE_WIDTH__ 64
• #define __SSP__ 1
• #define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL
• #define __STDCPP_THREADS__ 1

    #define __STDC_EMBED_EMPTY__ 2

• #define __STDC_EMBED_FOUND__ 1

    #define __STDC_EMBED_NOT_FOUND__ 0

    #define __STDC_HOSTED__ 1

• #define __STDC_NO_THREADS__ 1
• #define __STDC_UTF_16__ 1
#define __STDC_UTF_32__ 1
• #define __STDC__ 1

    #define __UINT16_C_SUFFIX_.

 #define __UINT16_FMTX__ "hX"

 #define __UINT16_FMTo__ "ho"

• #define __UINT16_FMTu__ "hu"
#define __UINT16_FMTx__ "hx"

    #define __UINT16_MAX__ 65535

    #define __UINT16_TYPE__ unsigned short

    #define __UINT32_C_SUFFIX__ U

• #define __UINT32_FMTX__ "X"
#define __UINT32_FMTo__ "o"

    #define __UINT32_FMTu__ "u"

#define __UINT32_FMTx__ "x"

    #define __UINT32_MAX__ 4294967295U

    #define __UINT32_TYPE__ unsigned int

    #define __UINT64_C_SUFFIX__ ULL

#define __UINT64_FMTX__ "IIX"
• #define __UINT64_FMTo__ "Ilo"

    #define __UINT64_FMTu__ "Ilu"

#define __UINT64_FMTx__ "Ilx"

    #define __UINT64_MAX__ 18446744073709551615ULL

    #define __UINT64_TYPE__ long long unsigned int

    #define __UINT8_C_SUFFIX__

#define __UINT8_FMTX__ "hhX"
• #define __UINT8_FMTo__ "hho"

    #define __UINT8_FMTu__ "hhu"

#define __UINT8_FMTx__ "hhx"
• #define __UINT8_MAX__ 255

    #define __UINT8_TYPE__ unsigned char

    #define __UINTMAX_C_SUFFIX__ UL

    #define __UINTMAX_FMTX__ "IX"

    #define __UINTMAX_FMTo__ "lo"

• #define __UINTMAX_FMTu__ "lu"
• #define __UINTMAX_FMTx__ "lx"

    #define __UINTMAX_MAX__ 18446744073709551615UL

    #define __UINTMAX_TYPE__ long unsigned int
```

#define __UINTMAX_WIDTH__ 64#define __UINTPTR_FMTX__ "IX"

- #define __UINTPTR_FMTo__ "lo"
- #define __UINTPTR_FMTu__ "lu"
- #define __UINTPTR_FMTx__ "lx"
- #define __UINTPTR_MAX__ 18446744073709551615UL
- #define __UINTPTR_TYPE__ long unsigned int
- #define __UINTPTR_WIDTH__ 64
- #define __UINT_FAST16_FMTX__ "hX"
- #define __UINT_FAST16_FMTo__ "ho"
- #define __UINT_FAST16_FMTu__ "hu"
- #define __UINT_FAST16_FMTx__ "hx"
- #define __UINT_FAST16_MAX__ 65535
- #define __UINT_FAST16_TYPE__ unsigned short
- #define __UINT_FAST32_FMTX__ "X"
- #define __UINT_FAST32_FMTo__ "o"
- #define __UINT_FAST32_FMTu__ "u"
- #define __UINT_FAST32_FMTx__ "x"
- #define __UINT_FAST32_MAX__ 4294967295U
- #define __UINT_FAST32_TYPE__ unsigned int
- #define __UINT_FAST64_FMTX__ "IIX"
- #define __UINT_FAST64_FMTo__ "Ilo"
- #define __UINT_FAST64_FMTu__ "Ilu"
- #define __UINT_FAST64_FMTx__ "Ilx"
- #define __UINT_FAST64_MAX__ 18446744073709551615ULL
- #define __UINT_FAST64_TYPE__ long long unsigned int
- #define __UINT_FAST8_FMTX__ "hhX"
- #define __UINT_FAST8_FMTo__ "hho"
- #define __UINT_FAST8_FMTu__ "hhu"
- #define __UINT_FAST8_FMTx__ "hhx"
- #define __UINT_FAST8_MAX__ 255
- #define __UINT_FAST8_TYPE__ unsigned char
- #define __UINT_LEAST16_FMTX__ "hX"
- #define __UINT_LEAST16_FMTo__ "ho"
- #define __UINT_LEAST16_FMTu__ "hu"
- #define __UINT_LEAST16_FMTx__ "hx"
- #define __UINT_LEAST16_MAX__ 65535
- #define __UINT_LEAST16_TYPE__ unsigned short
- #define __UINT_LEAST32_FMTX__ "X"
- #define __UINT_LEAST32_FMTo__ "o"
- #define __UINT_LEAST32_FMTu__ "u"
- #define __UINT_LEAST32_FMTx__ "x"
- #define __UINT_LEAST32_MAX__ 4294967295U
- #define __UINT_LEAST32_TYPE__ unsigned int
- #define __UINT_LEAST64_FMTX__ "IIX"
- #define __UINT_LEAST64_FMTo__ "llo"
- #define __UINT_LEAST64_FMTu__ "Ilu"
- #define __UINT_LEAST64_FMTx__ "Ilx"
- #define __UINT_LEAST64_MAX__ 18446744073709551615ULL
- #define __UINT_LEAST64_TYPE__ long long unsigned int
- #define __UINT_LEAST8_FMTX__ "hhX"
- #define __UINT_LEAST8_FMTo__ "hho"
- #define __UINT_LEAST8_FMTu__ "hhu"
- #define __UINT_LEAST8_FMTx__ "hhx"
- #define __UINT_LEAST8_MAX__ 255
- #define __UINT_LEAST8_TYPE__ unsigned char
- #define __USER_LABEL_PREFIX__ _

- #define __VERSION__ "Apple LLVM 17.0.0 (clang-1700.0.13.3)"
- #define __WCHAR_MAX__ 2147483647
- #define __WCHAR_TYPE__ int
- #define __WCHAR_WIDTH__ 32
- #define __WINT_MAX__ 2147483647
- #define __WINT_TYPE__ int
- #define __WINT_WIDTH__ 32
- #define __aarch64__ 1
- #define __apple_build_version__ 17000013
- #define __arm64 1
- #define __arm64__ 1
- #define __block __attribute__((__blocks__(byref)))
- #define __clang__ 1
- #define __clang_literal_encoding__ "UTF-8"
- #define __clang_major__ 17
- #define __clang_minor__ 0
- #define __clang_patchlevel__ 0
- #define __clang_version__ "17.0.0 (clang-1700.0.13.3)"
- #define __clang_wide_literal_encoding__ "UTF-32"
- #define __cplusplus 201703L
- #define __cpp_aggregate_bases 201603L
- #define __cpp_aggregate_nsdmi 201304L
- #define __cpp_alias_templates 200704L
- #define __cpp_aligned_new 201606L
- #define __cpp_attributes 200809L
- #define __cpp_binary_literals 201304L
- #define __cpp_capture_star_this 201603L
- #define __cpp_constexpr 201603L
- #define __cpp_constexpr_in_decltype 201711L
- #define __cpp_decltype 200707L
- #define __cpp_decltype_auto 201304L
- #define __cpp_deduction_guides 201703L
- #define __cpp_delegating_constructors 200604L
- #define __cpp_deleted_function 202403L
- #define __cpp_digit_separators 201309L
- #define __cpp_enumerator_attributes 201411L
- #define __cpp_exceptions 199711L
- #define __cpp_fold_expressions 201603L
- #define __cpp_generic_lambdas 201304L
- #define __cpp_guaranteed_copy_elision 201606L
- #define __cpp_hex_float 201603L
- #define __cpp_if_constexpr 201606L
- #define __cpp_impl_destroying_delete 201806L
- #define __cpp_inheriting_constructors 201511L
- #define __cpp_init_captures 201304L
- #define __cpp_initializer_lists 200806L
- #define __cpp_inline_variables 201606L
- #define __cpp_lambdas 200907L
- #define __cpp_named_character_escapes 202207L
- #define __cpp_namespace_attributes 201411L
- #define __cpp_nested_namespace_definitions 201411L
- #define __cpp_noexcept_function_type 201510L
- #define __cpp_nontype_template_args 201411L
- #define __cpp_nontype_template_parameter_auto 201606L
- #define __cpp_nsdmi 200809L

- #define __cpp_pack_indexing 202311L
- #define __cpp_placeholder_variables 202306L
- #define __cpp_range_based_for 201603L
- #define __cpp_raw_strings 200710L
- #define __cpp_ref_qualifiers 200710L
- #define __cpp_return_type_deduction 201304L
- #define __cpp_rtti 199711L
- #define __cpp_rvalue_references 200610L
- #define __cpp_static_assert 201411L
- #define __cpp_static_call_operator 202207L
- #define __cpp_structured_bindings 202403L
- #define __cpp_template_auto 201606L
- #define __cpp_template_template_args 201611L
- #define __cpp_threadsafe_static_init 200806L
- #define __cpp_unicode_characters 200704L
- #define __cpp_unicode_literals 200710L
- #define __cpp_user_defined_literals 200809L
- #define __cpp_variable_templates 201304L
- #define __cpp_variadic_templates 200704L
- #define __cpp_variadic_using 201611L
- #define __llvm__ 1
- #define __nonnull _Nonnull
- #define __null_unspecified _Null_unspecified
- #define __nullable _Nullable
- #define __pic__ 2
- #define __private_extern__ extern
- #define __strong
- #define __unsafe_unretained
- #define __weak __attribute__((objc_gc(weak)))

9.45.1 宏定义说明

9.45.1.1 __aarch64__

#define __aarch64__ 1

9.45.1.2 __AARCH64_CMODEL_SMALL__

#define __AARCH64_CMODEL_SMALL__ 1

9.45.1.3 __AARCH64_SIMD__

#define __AARCH64_SIMD__ 1

9.45.1.4 __AARCH64EL__

#define __AARCH64EL__ 1

9.45.1.5 __APPLE__

#define __APPLE__ 1

9.45.1.6 __apple_build_version__

#define __apple_build_version__ 17000013

9.45.1.7 __APPLE_CC__

#define __APPLE_CC__ 6000

9.45.1.8 __arm64

#define __arm64 1

9.45.1.9 __arm64__

#define __arm64__ 1

9.45.1.10 __ARM64_ARCH_8_

#define __ARM64_ARCH_8__ 1

9.45.1.11 __ARM_64BIT_STATE

#define __ARM_64BIT_STATE 1

9.45.1.12 __ARM_ACLE

#define __ARM_ACLE 200

9.45.1.13 __ARM_ALIGN_MAX_STACK_PWR

#define __ARM_ALIGN_MAX_STACK_PWR 4

9.45.1.14 __ARM_ARCH

#define __ARM_ARCH 8

9.45.1.15 __ARM_ARCH_8_3__ #define __ARM_ARCH_8_3__ 1 9.45.1.16 __ARM_ARCH_8_4__ #define __ARM_ARCH_8_4__ 1 9.45.1.17 __ARM_ARCH_8_5__ #define __ARM_ARCH_8_5__ 1 9.45.1.18 __ARM_ARCH_ISA_A64 #define __ARM_ARCH_ISA_A64 1 9.45.1.19 __ARM_ARCH_PROFILE #define __ARM_ARCH_PROFILE 'A' 9.45.1.20 __ARM_FEATURE_AES #define __ARM_FEATURE_AES 1 9.45.1.21 __ARM_FEATURE_ATOMICS #define __ARM_FEATURE_ATOMICS 1 9.45.1.22 __ARM_FEATURE_BTI #define __ARM_FEATURE_BTI 1 9.45.1.23 __ARM_FEATURE_CLZ #define __ARM_FEATURE_CLZ 1 9.45.1.24 __ARM_FEATURE_COMPLEX

#define __ARM_FEATURE_COMPLEX 1

9.45.1.25 __ARM_FEATURE_CRC32

#define __ARM_FEATURE_CRC32 1

9.45.1.26 __ARM_FEATURE_CRYPTO

#define __ARM_FEATURE_CRYPTO 1

9.45.1.27 __ARM_FEATURE_DIRECTED_ROUNDING

#define __ARM_FEATURE_DIRECTED_ROUNDING 1

9.45.1.28 __ARM_FEATURE_DIV

#define __ARM_FEATURE_DIV 1

9.45.1.29 __ARM_FEATURE_DOTPROD

#define __ARM_FEATURE_DOTPROD 1

9.45.1.30 __ARM_FEATURE_FMA

#define __ARM_FEATURE_FMA 1

9.45.1.31 __ARM_FEATURE_FP16_FML

#define __ARM_FEATURE_FP16_FML 1

9.45.1.32 __ARM_FEATURE_FP16_SCALAR_ARITHMETIC

#define __ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1

9.45.1.33 __ARM_FEATURE_FP16_VECTOR_ARITHMETIC

#define __ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1

9.45.1.34 __ARM_FEATURE_FRINT

#define __ARM_FEATURE_FRINT 1

9.45.1.35 __ARM_FEATURE_IDIV

#define __ARM_FEATURE_IDIV 1

9.45.1.36 __ARM_FEATURE_JCVT

#define __ARM_FEATURE_JCVT 1

9.45.1.37 __ARM_FEATURE_LDREX

#define __ARM_FEATURE_LDREX 0xF

9.45.1.38 __ARM_FEATURE_NUMERIC_MAXMIN

#define __ARM_FEATURE_NUMERIC_MAXMIN 1

9.45.1.39 __ARM_FEATURE_PAUTH

#define __ARM_FEATURE_PAUTH 1

9.45.1.40 __ARM_FEATURE_QRDMX

#define __ARM_FEATURE_QRDMX 1

9.45.1.41 __ARM_FEATURE_RCPC

#define __ARM_FEATURE_RCPC 1

9.45.1.42 __ARM_FEATURE_SHA2

#define __ARM_FEATURE_SHA2 1

9.45.1.43 __ARM_FEATURE_SHA3

#define __ARM_FEATURE_SHA3 1

9.45.1.44 __ARM_FEATURE_SHA512

#define __ARM_FEATURE_SHA512 1

9.45.1.45 __ARM_FEATURE_UNALIGNED

#define __ARM_FEATURE_UNALIGNED 1

9.45.1.46 __ARM_FP

#define __ARM_FP 0xE

9.45.1.47 __ARM_FP16_ARGS

#define __ARM_FP16_ARGS 1

9.45.1.48 __ARM_FP16_FORMAT_IEEE

#define __ARM_FP16_FORMAT_IEEE 1

9.45.1.49 __ARM_NEON

#define __ARM_NEON 1

9.45.1.50 __ARM_NEON__

#define __ARM_NEON__ 1

9.45.1.51 __ARM_NEON_FP

#define __ARM_NEON_FP 0xE

9.45.1.52 __ARM_PCS_AAPCS64

#define __ARM_PCS_AAPCS64 1

9.45.1.53 __ARM_SIZEOF_MINIMAL_ENUM

#define __ARM_SIZEOF_MINIMAL_ENUM 4

9.45.1.54 __ARM_SIZEOF_WCHAR_T

#define __ARM_SIZEOF_WCHAR_T 4

9.45.1.55 __ARM_STATE_ZA #define __ARM_STATE_ZA 1 9.45.1.56 __ARM_STATE_ZTO #define __ARM_STATE_ZT0 1 9.45.1.57 __ATOMIC_ACQ_REL #define __ATOMIC_ACQ_REL 4 9.45.1.58 __ATOMIC_ACQUIRE #define __ATOMIC_ACQUIRE 2 9.45.1.59 __ATOMIC_CONSUME #define __ATOMIC_CONSUME 1 9.45.1.60 __ATOMIC_RELAXED #define __ATOMIC_RELAXED 0 9.45.1.61 __ATOMIC_RELEASE #define __ATOMIC_RELEASE 3 9.45.1.62 __ATOMIC_SEQ_CST #define __ATOMIC_SEQ_CST 5 9.45.1.63 __BIGGEST_ALIGNMENT__ #define __BIGGEST_ALIGNMENT__ 8

9.45.1.64 __BITINT_MAXWIDTH__

#define __BITINT_MAXWIDTH__ 128

9.45.1.65 __block #define __block __attribute__((__blocks__(byref))) 9.45.1.66 __BLOCKS__ #define __BLOCKS__ 1 9.45.1.67 __BOOL_WIDTH__ #define __BOOL_WIDTH__ 8 9.45.1.68 __BYTE_ORDER__ #define __BYTE_ORDER__ __ORDER_LITTLE_ENDIAN__ 9.45.1.69 __CHAR16_TYPE__ #define __CHAR16_TYPE__ unsigned short 9.45.1.70 __CHAR32_TYPE__ #define __CHAR32_TYPE__ unsigned int 9.45.1.71 __CHAR_BIT__ #define __CHAR_BIT__ 8 9.45.1.72 __clang__ #define __clang__ 1 9.45.1.73 __CLANG_ATOMIC_BOOL_LOCK_FREE

9.45.1.74 __CLANG_ATOMIC_CHAR16_T_LOCK_FREE

#define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2

#define __CLANG_ATOMIC_BOOL_LOCK_FREE 2

9.45.1.75 __CLANG_ATOMIC_CHAR32_T_LOCK_FREE

#define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2

9.45.1.76 __CLANG_ATOMIC_CHAR_LOCK_FREE

#define __CLANG_ATOMIC_CHAR_LOCK_FREE 2

9.45.1.77 __CLANG_ATOMIC_INT_LOCK_FREE

#define __CLANG_ATOMIC_INT_LOCK_FREE 2

9.45.1.78 __CLANG_ATOMIC_LLONG_LOCK_FREE

#define __CLANG_ATOMIC_LLONG_LOCK_FREE 2

9.45.1.79 __CLANG_ATOMIC_LONG_LOCK_FREE

#define __CLANG_ATOMIC_LONG_LOCK_FREE 2

9.45.1.80 __CLANG_ATOMIC_POINTER_LOCK_FREE

#define __CLANG_ATOMIC_POINTER_LOCK_FREE 2

9.45.1.81 __CLANG_ATOMIC_SHORT_LOCK_FREE

#define __CLANG_ATOMIC_SHORT_LOCK_FREE 2

9.45.1.82 __CLANG_ATOMIC_WCHAR_T_LOCK_FREE

#define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2

9.45.1.83 __clang_literal_encoding_

#define __clang_literal_encoding__ "UTF-8"

9.45.1.84 __clang_major__

#define __clang_major__ 17

```
9.45.1.85 __clang_minor__
#define __clang_minor__ 0
9.45.1.86 __clang_patchlevel__
#define __clang_patchlevel__ 0
9.45.1.87 __clang_version__
#define __clang_version__ "17.0.0 (clang-1700.0.13.3)"
9.45.1.88 __clang_wide_literal_encoding__
#define __clang_wide_literal_encoding__ "UTF-32"
9.45.1.89 __CONSTANT_CFSTRINGS_
#define __CONSTANT_CFSTRINGS__ 1
9.45.1.90 __cplusplus
#define _cplusplus 201703L
9.45.1.91 __cpp_aggregate_bases
#define __cpp_aggregate_bases 201603L
9.45.1.92 __cpp_aggregate_nsdmi
#define __cpp_aggregate_nsdmi 201304L
9.45.1.93 __cpp_alias_templates
#define _-cpp_alias_templates 200704L
```

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9.45.1.94 __cpp_aligned_new

#define __cpp_aligned_new 201606L

9.45.1.95 __cpp_attributes

#define _cpp_attributes 200809L

9.45.1.96 __cpp_binary_literals

#define __cpp_binary_literals 201304L

9.45.1.97 __cpp_capture_star_this

#define __cpp_capture_star_this 201603L

9.45.1.98 __cpp_constexpr

#define __cpp_constexpr 201603L

9.45.1.99 __cpp_constexpr_in_decltype

#define __cpp_constexpr_in_decltype 201711L

9.45.1.100 __cpp_decltype

#define _cpp_decltype 200707L

9.45.1.101 __cpp_decltype_auto

#define _cpp_decltype_auto 201304L

9.45.1.102 __cpp_deduction_guides

#define _cpp_deduction_guides 201703L

9.45.1.103 __cpp_delegating_constructors

#define _-cpp_delegating_constructors 200604L

9.45.1.104 __cpp_deleted_function

#define __cpp_deleted_function 202403L

9.45.1.105 __cpp_digit_separators

#define __cpp_digit_separators 201309L

9.45.1.106 __cpp_enumerator_attributes

#define __cpp_enumerator_attributes 201411L

9.45.1.107 __cpp_exceptions

#define __cpp_exceptions 199711L

9.45.1.108 __cpp_fold_expressions

#define __cpp_fold_expressions 201603L

9.45.1.109 __cpp_generic_lambdas

#define _cpp_generic_lambdas 201304L

9.45.1.110 __cpp_guaranteed_copy_elision

#define __cpp_guaranteed_copy_elision 201606L

9.45.1.111 __cpp_hex_float

#define _cpp_hex_float 201603L

9.45.1.112 __cpp_if_constexpr

#define __cpp_if_constexpr 201606L

9.45.1.113 __cpp_impl_destroying_delete

#define __cpp_impl_destroying_delete 201806L

9.45.1.114 __cpp_inheriting_constructors

 $\verb|#define _-cpp_inheriting_constructors 201511L|\\$

9.45.1.115 __cpp_init_captures

#define _cpp_init_captures 201304L

9.45.1.116 __cpp_initializer_lists

#define __cpp_initializer_lists 200806L

9.45.1.117 __cpp_inline_variables

#define __cpp_inline_variables 201606L

9.45.1.118 __cpp_lambdas

#define __cpp_lambdas 200907L

9.45.1.119 __cpp_named_character_escapes

#define _cpp_named_character_escapes 202207L

9.45.1.120 __cpp_namespace_attributes

#define __cpp_namespace_attributes 201411L

9.45.1.121 __cpp_nested_namespace_definitions

#define __cpp_nested_namespace_definitions 201411L

9.45.1.122 __cpp_noexcept_function_type

#define __cpp_noexcept_function_type 201510L

9.45.1.123 __cpp_nontype_template_args

#define __cpp_nontype_template_args 201411L

9.45.1.124 __cpp_nontype_template_parameter_auto

#define __cpp_nontype_template_parameter_auto 201606L

9.45.1.125 __cpp_nsdmi

#define __cpp_nsdmi 200809L

9.45.1.126 __cpp_pack_indexing

#define __cpp_pack_indexing 202311L

9.45.1.127 __cpp_placeholder_variables

#define __cpp_placeholder_variables 202306L

9.45.1.128 __cpp_range_based_for

#define __cpp_range_based_for 201603L

9.45.1.129 __cpp_raw_strings

#define __cpp_raw_strings 200710L

9.45.1.130 __cpp_ref_qualifiers

#define __cpp_ref_qualifiers 200710L

9.45.1.131 __cpp_return_type_deduction

#define __cpp_return_type_deduction 201304L

9.45.1.132 __cpp_rtti

#define __cpp_rtti 199711L

9.45.1.133 __cpp_rvalue_references

#define __cpp_rvalue_references 200610L

9.45.1.134 __cpp_static_assert

#define __cpp_static_assert 201411L

9.45.1.135 __cpp_static_call_operator

#define __cpp_static_call_operator 202207L

9.45.1.136 __cpp_structured_bindings

#define __cpp_structured_bindings 202403L

9.45.1.137 __cpp_template_auto

#define __cpp_template_auto 201606L

9.45.1.138 __cpp_template_template_args

#define __cpp_template_template_args 201611L

9.45.1.139 __cpp_threadsafe_static_init

#define __cpp_threadsafe_static_init 200806L

9.45.1.140 __cpp_unicode_characters

#define __cpp_unicode_characters 200704L

9.45.1.141 __cpp_unicode_literals

#define __cpp_unicode_literals 200710L

9.45.1.142 __cpp_user_defined_literals

#define __cpp_user_defined_literals 200809L

9.45.1.143 __cpp_variable_templates

#define _-cpp_variable_templates 201304L

9.45.1.144 __cpp_variadic_templates

#define __cpp_variadic_templates 200704L

9.45.1.145 __cpp_variadic_using

#define __cpp_variadic_using 201611L

9.45.1.146 __DBL_DECIMAL_DIG__

#define __DBL_DECIMAL_DIG__ 17

9.45.1.147 __DBL_DENORM_MIN__

#define __DBL_DENORM_MIN__ 4.9406564584124654e-324

9.45.1.148 __DBL_DIG__

#define __DBL_DIG__ 15

9.45.1.149 __DBL_EPSILON__

#define __DBL_EPSILON__ 2.2204460492503131e-16

9.45.1.150 __DBL_HAS_DENORM__

#define __DBL_HAS_DENORM__ 1

9.45.1.151 __DBL_HAS_INFINITY__

#define __DBL_HAS_INFINITY__ 1

9.45.1.152 __DBL_HAS_QUIET_NAN__

#define __DBL_HAS_QUIET_NAN__ 1

9.45.1.153 __DBL_MANT_DIG__

#define __DBL_MANT_DIG__ 53

9.45.1.154 __DBL_MAX_10_EXP__

#define __DBL_MAX_10_EXP__ 308

9.45.1.155 __DBL_MAX__ #define __DBL_MAX__ 1.7976931348623157e+308 9.45.1.156 __DBL_MAX_EXP__ #define __DBL_MAX_EXP__ 1024 9.45.1.157 __DBL_MIN_10_EXP__ $\#define _DBL_MIN_10_EXP__ (-307)$ 9.45.1.158 __DBL_MIN__ #define __DBL_MIN__ 2.2250738585072014e-308 9.45.1.159 __DBL_MIN_EXP__ #define __DBL_MIN_EXP__ (-1021) 9.45.1.160 __DBL_NORM_MAX__ #define __DBL_NORM_MAX__ 1.7976931348623157e+308 9.45.1.161 __DECIMAL_DIG__ #define __DECIMAL_DIG__ _LDBL_DECIMAL_DIG__ 9.45.1.162 __DEPRECATED #define __DEPRECATED 1 9.45.1.163 __DYNAMIC__ #define __DYNAMIC__ 1 9.45.1.164 __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED_

#define __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__ 150000

9.45.1.165 __ENVIRONMENT_OS_VERSION_MIN_REQUIRED_

#define __ENVIRONMENT_OS_VERSION_MIN_REQUIRED__ 150000

9.45.1.166 __EXCEPTIONS

#define __EXCEPTIONS 1

9.45.1.167 __FINITE_MATH_ONLY__

#define __FINITE_MATH_ONLY__ 0

9.45.1.168 __FLT16_DECIMAL_DIG__

#define __FLT16_DECIMAL_DIG__ 5

9.45.1.169 __FLT16_DENORM_MIN__

#define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16

9.45.1.170 __FLT16_DIG__

#define __FLT16_DIG__ 3

9.45.1.171 __FLT16_EPSILON__

#define __FLT16_EPSILON__ 9.765625e-4F16

9.45.1.172 __FLT16_HAS_DENORM__

#define __FLT16_HAS_DENORM__ 1

9.45.1.173 __FLT16_HAS_INFINITY__

#define __FLT16_HAS_INFINITY__ 1

9.45.1.174 __FLT16_HAS_QUIET_NAN__

#define __FLT16_HAS_QUIET_NAN__ 1

9.45.1.175 __FLT16_MANT_DIG__ #define __FLT16_MANT_DIG__ 11 9.45.1.176 __FLT16_MAX_10_EXP__ #define __FLT16_MAX_10_EXP__ 4 9.45.1.177 __FLT16_MAX__ #define __FLT16_MAX__ 6.5504e+4F16 9.45.1.178 __FLT16_MAX_EXP__ #define __FLT16_MAX_EXP__ 16 9.45.1.179 __FLT16_MIN_10_EXP__ #define __FLT16_MIN_10_EXP__ (-4) 9.45.1.180 __FLT16_MIN__ #define __FLT16_MIN__ 6.103515625e-5F16 9.45.1.181 __FLT16_MIN_EXP__ #define __FLT16_MIN_EXP__ (-13) 9.45.1.182 __FLT16_NORM_MAX__ #define __FLT16_NORM_MAX__ 6.5504e+4F16 9.45.1.183 __FLT_DECIMAL_DIG__ #define __FLT_DECIMAL_DIG__ 9

9.45.1.184 __FLT_DENORM_MIN__

#define __FLT_DENORM_MIN__ 1.40129846e-45F

9.45.1.185 __FLT_DIG__

#define __FLT_DIG__ 6

9.45.1.186 __FLT_EPSILON__

#define __FLT_EPSILON__ 1.19209290e-7F

9.45.1.187 __FLT_HAS_DENORM__

#define __FLT_HAS_DENORM__ 1

9.45.1.188 __FLT_HAS_INFINITY__

#define __FLT_HAS_INFINITY__ 1

9.45.1.189 __FLT_HAS_QUIET_NAN__

#define __FLT_HAS_QUIET_NAN__ 1

9.45.1.190 __FLT_MANT_DIG__

#define __FLT_MANT_DIG__ 24

9.45.1.191 __FLT_MAX_10_EXP__

#define __FLT_MAX_10_EXP__ 38

9.45.1.192 __FLT_MAX__

#define __FLT_MAX__ 3.40282347e+38F

9.45.1.193 __FLT_MAX_EXP__

#define __FLT_MAX_EXP__ 128

9.45.1.194 __FLT_MIN_10_EXP__

 $\#define __FLT_MIN_10_EXP__ (-37)$

9.45.1.195 __FLT_MIN__ #define __FLT_MIN__ 1.17549435e-38F 9.45.1.196 __FLT_MIN_EXP__ #define __FLT_MIN_EXP__ (-125) 9.45.1.197 __FLT_NORM_MAX__ #define __FLT_NORM_MAX__ 3.40282347e+38F 9.45.1.198 __FLT_RADIX__ #define __FLT_RADIX__ 2 9.45.1.199 __FP_FAST_FMA #define __FP_FAST_FMA 1 9.45.1.200 __FP_FAST_FMAF #define __FP_FAST_FMAF 1 9.45.1.201 __FPCLASS_NEGINF #define __FPCLASS_NEGINF 0x0004 9.45.1.202 __FPCLASS_NEGNORMAL #define __FPCLASS_NEGNORMAL 0x0008 9.45.1.203 __FPCLASS_NEGSUBNORMAL

#define __FPCLASS_NEGSUBNORMAL 0x0010

9.45.1.204 __FPCLASS_NEGZERO

#define __FPCLASS_NEGZERO 0x0020

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9.45.1.205 __FPCLASS_POSINF

#define __FPCLASS_POSINF 0x0200

9.45.1.206 __FPCLASS_POSNORMAL

#define __FPCLASS_POSNORMAL 0x0100

9.45.1.207 __FPCLASS_POSSUBNORMAL

#define __FPCLASS_POSSUBNORMAL 0x0080

9.45.1.208 __FPCLASS_POSZERO

#define __FPCLASS_POSZERO 0x0040

9.45.1.209 __FPCLASS_QNAN

#define __FPCLASS_QNAN 0x0002

9.45.1.210 __FPCLASS_SNAN

#define __FPCLASS_SNAN 0x0001

9.45.1.211 __GCC_ASM_FLAG_OUTPUTS__

#define __GCC_ASM_FLAG_OUTPUTS__ 1

9.45.1.212 __GCC_ATOMIC_BOOL_LOCK_FREE

#define __GCC_ATOMIC_BOOL_LOCK_FREE 2

9.45.1.213 __GCC_ATOMIC_CHAR16_T_LOCK_FREE

#define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2

9.45.1.214 __GCC_ATOMIC_CHAR32_T_LOCK_FREE

#define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2

9.45.1.215 __GCC_ATOMIC_CHAR_LOCK_FREE

#define __GCC_ATOMIC_CHAR_LOCK_FREE 2

9.45.1.216 __GCC_ATOMIC_INT_LOCK_FREE

#define __GCC_ATOMIC_INT_LOCK_FREE 2

9.45.1.217 __GCC_ATOMIC_LLONG_LOCK_FREE

#define __GCC_ATOMIC_LLONG_LOCK_FREE 2

9.45.1.218 __GCC_ATOMIC_LONG_LOCK_FREE

#define __GCC_ATOMIC_LONG_LOCK_FREE 2

9.45.1.219 __GCC_ATOMIC_POINTER_LOCK_FREE

#define __GCC_ATOMIC_POINTER_LOCK_FREE 2

9.45.1.220 __GCC_ATOMIC_SHORT_LOCK_FREE

#define __GCC_ATOMIC_SHORT_LOCK_FREE 2

9.45.1.221 __GCC_ATOMIC_TEST_AND_SET_TRUEVAL

#define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1

9.45.1.222 __GCC_ATOMIC_WCHAR_T_LOCK_FREE

#define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2

9.45.1.223 __GCC_CONSTRUCTIVE_SIZE

#define __GCC_CONSTRUCTIVE_SIZE 64

9.45.1.224 __GCC_DESTRUCTIVE_SIZE

#define __GCC_DESTRUCTIVE_SIZE 64

9.45.1.225 __GCC_HAVE_DWARF2_CFI_ASM

#define __GCC_HAVE_DWARF2_CFI_ASM 1

9.45.1.226 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1

9.45.1.227 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1

9.45.1.228 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1

9.45.1.229 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1

9.45.1.230 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1

9.45.1.231 __GLIBCXX_BITSIZE_INT_N_0

#define __GLIBCXX_BITSIZE_INT_N_0 128

9.45.1.232 __GLIBCXX_TYPE_INT_N_0

#define __GLIBCXX_TYPE_INT_N_0 __int128

9.45.1.233 __GNUC__

#define __GNUC__ 4

9.45.1.234 __GNUC_GNU_INLINE__

#define __GNUC_GNU_INLINE__ 1

9.45.1.235 __GNUC_MINOR__ #define __GNUC_MINOR__ 2 9.45.1.236 __GNUC_PATCHLEVEL__ #define __GNUC_PATCHLEVEL__ 1 9.45.1.237 __GNUG__ #define __GNUG__ 4 9.45.1.238 __GXX_ABI_VERSION #define __GXX_ABI_VERSION 1002 9.45.1.239 __GXX_EXPERIMENTAL_CXX0X__ #define __GXX_EXPERIMENTAL_CXX0X__ 1 9.45.1.240 __GXX_RTTI #define __GXX_RTTI 1 9.45.1.241 __GXX_WEAK__ #define __GXX_WEAK__ 1 9.45.1.242 __HAVE_FUNCTION_MULTI_VERSIONING #define __HAVE_FUNCTION_MULTI_VERSIONING 1 9.45.1.243 __INT16_C_SUFFIX__ #define __INT16_C_SUFFIX__ 9.45.1.244 __INT16_FMTd__

#define __INT16_FMTd__ "hd"

9.45.1.245 __INT16_FMTi__

#define __INT16_FMTi__ "hi"

9.45.1.246 __INT16_MAX__

#define __INT16_MAX__ 32767

9.45.1.247 __INT16_TYPE__

#define __INT16_TYPE__ short

9.45.1.248 __INT32_C_SUFFIX__

#define __INT32_C_SUFFIX__

9.45.1.249 __INT32_FMTd__

#define __INT32_FMTd__ "d"

9.45.1.250 __INT32_FMTi__

#define __INT32_FMTi__ "i"

9.45.1.251 __INT32_MAX__

#define __INT32_MAX__ 2147483647

9.45.1.252 __INT32_TYPE__

#define __INT32_TYPE__ int

9.45.1.253 __INT64_C_SUFFIX__

#define __INT64_C_SUFFIX__ LL

9.45.1.254 __INT64_FMTd__

#define __INT64_FMTd__ "lld"

9.45.1.255 __INT64_FMTi__ #define __INT64_FMTi__ "lli" 9.45.1.256 __INT64_MAX__ #define __INT64_MAX__ 9223372036854775807LL 9.45.1.257 __INT64_TYPE__ #define __INT64_TYPE__ long long int 9.45.1.258 __INT8_C_SUFFIX__ #define __INT8_C_SUFFIX__ 9.45.1.259 __INT8_FMTd__ #define __INT8_FMTd__ "hhd" 9.45.1.260 __INT8_FMTi__ #define __INT8_FMTi__ "hhi" 9.45.1.261 __INT8_MAX__ #define __INT8_MAX__ 127 9.45.1.262 __INT8_TYPE__ #define __INT8_TYPE__ signed char 9.45.1.263 __INT_FAST16_FMTd__ #define __INT_FAST16_FMTd__ "hd" 9.45.1.264 __INT_FAST16_FMTi__

#define __INT_FAST16_FMTi__ "hi"

9.45.1.265 __INT_FAST16_MAX__

#define __INT_FAST16_MAX__ 32767

9.45.1.266 __INT_FAST16_TYPE__

#define __INT_FAST16_TYPE__ short

9.45.1.267 __INT_FAST16_WIDTH__

#define __INT_FAST16_WIDTH__ 16

9.45.1.268 __INT_FAST32_FMTd__

#define __INT_FAST32_FMTd__ "d"

9.45.1.269 __INT_FAST32_FMTi__

#define __INT_FAST32_FMTi__ "i"

9.45.1.270 __INT_FAST32_MAX__

#define __INT_FAST32_MAX__ 2147483647

9.45.1.271 __INT_FAST32_TYPE__

#define __INT_FAST32_TYPE__ int

9.45.1.272 __INT_FAST32_WIDTH__

#define __INT_FAST32_WIDTH__ 32

9.45.1.273 __INT_FAST64_FMTd__

#define __INT_FAST64_FMTd__ "lld"

9.45.1.274 __INT_FAST64_FMTi__

#define __INT_FAST64_FMTi__ "lli"

9.45.1.275 __INT_FAST64_MAX__ #define __INT_FAST64_MAX__ 9223372036854775807LL 9.45.1.276 __INT_FAST64_TYPE__ #define __INT_FAST64_TYPE__ long long int 9.45.1.277 __INT_FAST64_WIDTH__ #define __INT_FAST64_WIDTH__ 64 9.45.1.278 __INT_FAST8_FMTd__ #define __INT_FAST8_FMTd__ "hhd" 9.45.1.279 __INT_FAST8_FMTi__ #define __INT_FAST8_FMTi__ "hhi" 9.45.1.280 __INT_FAST8_MAX__ #define __INT_FAST8_MAX__ 127 9.45.1.281 __INT_FAST8_TYPE__ #define __INT_FAST8_TYPE__ signed char 9.45.1.282 __INT_FAST8_WIDTH__ #define __INT_FAST8_WIDTH__ 8 9.45.1.283 __INT_LEAST16_FMTd__ #define __INT_LEAST16_FMTd__ "hd"

9.45.1.284 __INT_LEAST16_FMTi__

#define __INT_LEAST16_FMTi__ "hi"

9.45.1.285 __INT_LEAST16_MAX__

#define __INT_LEAST16_MAX__ 32767

9.45.1.286 __INT_LEAST16_TYPE__

#define __INT_LEAST16_TYPE__ short

9.45.1.287 __INT_LEAST16_WIDTH__

#define __INT_LEAST16_WIDTH__ 16

9.45.1.288 __INT_LEAST32_FMTd__

#define __INT_LEAST32_FMTd__ "d"

9.45.1.289 __INT_LEAST32_FMTi__

#define __INT_LEAST32_FMTi__ "i"

9.45.1.290 __INT_LEAST32_MAX__

#define __INT_LEAST32_MAX__ 2147483647

9.45.1.291 __INT_LEAST32_TYPE__

#define __INT_LEAST32_TYPE__ int

9.45.1.292 __INT_LEAST32_WIDTH__

#define __INT_LEAST32_WIDTH__ 32

9.45.1.293 __INT_LEAST64_FMTd__

#define __INT_LEAST64_FMTd__ "lld"

9.45.1.294 __INT_LEAST64_FMTi__

#define __INT_LEAST64_FMTi__ "lli"

9.45.1.295 __INT_LEAST64_MAX__ #define __INT_LEAST64_MAX__ 9223372036854775807LL 9.45.1.296 __INT_LEAST64_TYPE__ #define __INT_LEAST64_TYPE__ long long int 9.45.1.297 __INT_LEAST64_WIDTH__ #define __INT_LEAST64_WIDTH__ 64 9.45.1.298 __INT_LEAST8_FMTd__ #define __INT_LEAST8_FMTd__ "hhd" 9.45.1.299 __INT_LEAST8_FMTi__ #define __INT_LEAST8_FMTi__ "hhi" 9.45.1.300 __INT_LEAST8_MAX__ #define __INT_LEAST8_MAX__ 127 9.45.1.301 __INT_LEAST8_TYPE__ #define __INT_LEAST8_TYPE__ signed char 9.45.1.302 __INT_LEAST8_WIDTH__ #define __INT_LEAST8_WIDTH__ 8 9.45.1.303 __INT_MAX__

#define __INT_MAX__ 2147483647

9.45.1.304 __INT_WIDTH__

#define __INT_WIDTH__ 32

9.45.1.305 __INTMAX_C_SUFFIX__

#define __INTMAX_C_SUFFIX__ L

9.45.1.306 __INTMAX_FMTd__

#define __INTMAX_FMTd__ "ld"

9.45.1.307 __INTMAX_FMTi__

#define __INTMAX_FMTi__ "li"

9.45.1.308 __INTMAX_MAX__

#define __INTMAX_MAX__ 9223372036854775807L

9.45.1.309 __INTMAX_TYPE__

#define __INTMAX_TYPE__ long int

9.45.1.310 __INTMAX_WIDTH__

#define __INTMAX_WIDTH__ 64

9.45.1.311 __INTPTR_FMTd__

#define __INTPTR_FMTd__ "ld"

9.45.1.312 __INTPTR_FMTi__

#define __INTPTR_FMTi__ "li"

9.45.1.313 __INTPTR_MAX__

#define __INTPTR_MAX__ 9223372036854775807L

9.45.1.314 __INTPTR_TYPE__

#define __INTPTR_TYPE__ long int

9.45.1.315 __INTPTR_WIDTH__ #define __INTPTR_WIDTH__ 64 9.45.1.316 __LDBL_DECIMAL_DIG__ #define __LDBL_DECIMAL_DIG__ 17 9.45.1.317 __LDBL_DENORM_MIN__ #define __LDBL_DENORM_MIN__ 4.9406564584124654e-324L 9.45.1.318 __LDBL_DIG__ #define __LDBL_DIG__ 15 9.45.1.319 _LDBL_EPSILON_ #define _LDBL_EPSILON_ 2.2204460492503131e-16L 9.45.1.320 _LDBL_HAS_DENORM_ #define __LDBL_HAS_DENORM__ 1 9.45.1.321 __LDBL_HAS_INFINITY__ #define __LDBL_HAS_INFINITY__ 1 9.45.1.322 __LDBL_HAS_QUIET_NAN__ #define __LDBL_HAS_QUIET_NAN__ 1 9.45.1.323 __LDBL_MANT_DIG__ #define __LDBL_MANT_DIG__ 53

9.45.1.324 __LDBL_MAX_10_EXP__

#define __LDBL_MAX_10_EXP__ 308

9.45.1.325 __LDBL_MAX__

#define __LDBL_MAX__ 1.7976931348623157e+308L

9.45.1.326 __LDBL_MAX_EXP__

#define __LDBL_MAX_EXP__ 1024

9.45.1.327 __LDBL_MIN_10_EXP__

#define __LDBL_MIN_10_EXP__ (-307)

9.45.1.328 __LDBL_MIN__

#define __LDBL_MIN__ 2.2250738585072014e-308L

9.45.1.329 __LDBL_MIN_EXP__

#define __LDBL_MIN_EXP__ (-1021)

9.45.1.330 __LDBL_NORM_MAX__

#define __LDBL_NORM_MAX__ 1.7976931348623157e+308L

9.45.1.331 __LITTLE_ENDIAN__

#define __LITTLE_ENDIAN__ 1

9.45.1.332 __LLONG_WIDTH__

#define __LLONG_WIDTH__ 64

9.45.1.333 __llvm__

#define __llvm__ 1

9.45.1.334 __LONG_LONG_MAX__

#define __LONG_LONG_MAX__ 9223372036854775807LL

9.45.1.335 __LONG_MAX__ #define __LONG_MAX__ 9223372036854775807L 9.45.1.336 __LONG_WIDTH__ #define __LONG_WIDTH__ 64 9.45.1.337 __LP64__ #define __LP64__ 1 9.45.1.338 __MACH__ #define __MACH__ 1 9.45.1.339 __MEMORY_SCOPE_DEVICE #define __MEMORY_SCOPE_DEVICE 1 9.45.1.340 __MEMORY_SCOPE_SINGLE #define __MEMORY_SCOPE_SINGLE 4 9.45.1.341 __MEMORY_SCOPE_SYSTEM #define __MEMORY_SCOPE_SYSTEM 0 9.45.1.342 __MEMORY_SCOPE_WRKGRP #define __MEMORY_SCOPE_WRKGRP 2 9.45.1.343 __MEMORY_SCOPE_WVFRNT #define __MEMORY_SCOPE_WVFRNT 3 9.45.1.344 __NO_INLINE__

#define __NO_INLINE__ 1

9.45.1.345 __NO_MATH_ERRNO__

#define __NO_MATH_ERRNO__ 1

9.45.1.346 __nonnull

#define __nonnull _Nonnull

9.45.1.347 __null_unspecified

#define __null_unspecified _Null_unspecified

9.45.1.348 __nullable

#define __nullable _Nullable

9.45.1.349 __OBJC_BOOL_IS_BOOL

#define __OBJC_BOOL_IS_BOOL 1

9.45.1.350 __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES

#define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3

9.45.1.351 __OPENCL_MEMORY_SCOPE_DEVICE

#define __OPENCL_MEMORY_SCOPE_DEVICE 2

9.45.1.352 __OPENCL_MEMORY_SCOPE_SUB_GROUP

#define __OPENCL_MEMORY_SCOPE_SUB_GROUP 4

9.45.1.353 __OPENCL_MEMORY_SCOPE_WORK_GROUP

#define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1

9.45.1.354 __OPENCL_MEMORY_SCOPE_WORK_ITEM

#define __OPENCL_MEMORY_SCOPE_WORK_ITEM 0

9.45.1.355 __ORDER_BIG_ENDIAN__ #define __ORDER_BIG_ENDIAN__ 4321 9.45.1.356 __ORDER_LITTLE_ENDIAN__ #define __ORDER_LITTLE_ENDIAN__ 1234 9.45.1.357 __ORDER_PDP_ENDIAN__ #define __ORDER_PDP_ENDIAN__ 3412 9.45.1.358 __PIC__ #define __PIC__ 2 9.45.1.359 __pic__ #define __pic__ 2 9.45.1.360 __POINTER_WIDTH__ #define __POINTER_WIDTH__ 64 9.45.1.361 __PRAGMA_REDEFINE_EXTNAME #define __PRAGMA_REDEFINE_EXTNAME 1 9.45.1.362 __private_extern__ #define __private_extern__ extern 9.45.1.363 __PTRDIFF_FMTd__ #define __PTRDIFF_FMTd__ "ld" 9.45.1.364 __PTRDIFF_FMTi__

#define __PTRDIFF_FMTi__ "li"

9.45.1.365 __PTRDIFF_MAX__

#define __PTRDIFF_MAX__ 9223372036854775807L

9.45.1.366 __PTRDIFF_TYPE__

#define __PTRDIFF_TYPE__ long int

9.45.1.367 __PTRDIFF_WIDTH__

#define __PTRDIFF_WIDTH__ 64

9.45.1.368 __REGISTER_PREFIX__

#define __REGISTER_PREFIX__

9.45.1.369 __SCHAR_MAX__

#define __SCHAR_MAX__ 127

9.45.1.370 __SHRT_MAX__

#define __SHRT_MAX__ 32767

9.45.1.371 __SHRT_WIDTH__

#define __SHRT_WIDTH__ 16

9.45.1.372 __SIG_ATOMIC_MAX_

#define __SIG_ATOMIC_MAX__ 2147483647

9.45.1.373 __SIG_ATOMIC_WIDTH__

#define __SIG_ATOMIC_WIDTH__ 32

9.45.1.374 __SIZE_FMTo__

#define __SIZE_FMTo__ "lo"

9.45.1.375 __SIZE_FMTu__ #define __SIZE_FMTu__ "lu" 9.45.1.376 __SIZE_FMTX__ #define __SIZE_FMTX__ "1X" 9.45.1.377 __SIZE_FMTx__ #define __SIZE_FMTx__ "lx" 9.45.1.378 __SIZE_MAX__ #define __SIZE_MAX__ 18446744073709551615UL 9.45.1.379 __SIZE_TYPE__ #define __SIZE_TYPE_ long unsigned int 9.45.1.380 __SIZE_WIDTH__ #define __SIZE_WIDTH__ 64 9.45.1.381 __SIZEOF_DOUBLE__ #define __SIZEOF_DOUBLE__ 8 9.45.1.382 __SIZEOF_FLOAT__ #define __SIZEOF_FLOAT__ 4 9.45.1.383 __SIZEOF_INT128__ #define __SIZEOF_INT128__ 16 9.45.1.384 __SIZEOF_INT__

#define __SIZEOF_INT__ 4

9.45.1.385 __SIZEOF_LONG__ #define __SIZEOF_LONG__ 8 9.45.1.386 __SIZEOF_LONG_DOUBLE__ #define __SIZEOF_LONG_DOUBLE__ 8 9.45.1.387 __SIZEOF_LONG_LONG__ #define __SIZEOF_LONG_LONG__ 8 9.45.1.388 __SIZEOF_POINTER__ #define __SIZEOF_POINTER__ 8 9.45.1.389 __SIZEOF_PTRDIFF_T__ #define __SIZEOF_PTRDIFF_T__ 8 9.45.1.390 __SIZEOF_SHORT__ #define __SIZEOF_SHORT__ 2 9.45.1.391 __SIZEOF_SIZE_T__ #define __SIZEOF_SIZE_T__ 8

9.45.1.392 __SIZEOF_WCHAR_T_

#define __SIZEOF_WCHAR_T__ 4

9.45.1.393 __SIZEOF_WINT_T__

#define __SIZEOF_WINT_T__ 4

9.45.1.394 __SSP__

#define __SSP__ 1

```
9.45.1.395 __STDC__
#define __STDC__ 1
9.45.1.396 __STDC_EMBED_EMPTY__
#define __STDC_EMBED_EMPTY__ 2
9.45.1.397 __STDC_EMBED_FOUND__
#define __STDC_EMBED_FOUND__ 1
9.45.1.398 __STDC_EMBED_NOT_FOUND__
#define __STDC_EMBED_NOT_FOUND__ 0
9.45.1.399 __STDC_HOSTED__
#define __STDC_HOSTED__ 1
9.45.1.400 __STDC_NO_THREADS__
#define __STDC_NO_THREADS__ 1
9.45.1.401 __STDC_UTF_16__
#define __STDC_UTF_16__ 1
9.45.1.402 __STDC_UTF_32__
#define __STDC_UTF_32__ 1
9.45.1.403 __STDCPP_DEFAULT_NEW_ALIGNMENT__
#define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL
9.45.1.404 __STDCPP_THREADS__
```

#define __STDCPP_THREADS__ 1

9.45.1.405 __strong

#define __strong

9.45.1.406 __UINT16_C_SUFFIX__

#define __UINT16_C_SUFFIX__

9.45.1.407 __UINT16_FMTo__

#define __UINT16_FMTo__ "ho"

9.45.1.408 __UINT16_FMTu__

#define __UINT16_FMTu__ "hu"

9.45.1.409 __UINT16_FMTX__

#define __UINT16_FMTX__ "hX"

9.45.1.410 __UINT16_FMTx__

#define __UINT16_FMTx__ "hx"

9.45.1.411 __UINT16_MAX__

#define __UINT16_MAX__ 65535

9.45.1.412 __UINT16_TYPE__

#define __UINT16_TYPE__ unsigned short

9.45.1.413 __UINT32_C_SUFFIX__

#define __UINT32_C_SUFFIX__ U

9.45.1.414 __UINT32_FMTo__

#define __UINT32_FMTo__ "o"

9.45.1.415 __UINT32_FMTu__ #define __UINT32_FMTu__ "u" 9.45.1.416 __UINT32_FMTX__ #define __UINT32_FMTX__ "X" 9.45.1.417 __UINT32_FMTx__ #define __UINT32_FMTx__ "x" 9.45.1.418 __UINT32_MAX__ #define __UINT32_MAX__ 4294967295U 9.45.1.419 __UINT32_TYPE__ #define __UINT32_TYPE_ unsigned int 9.45.1.420 __UINT64_C_SUFFIX__ #define __UINT64_C_SUFFIX__ ULL 9.45.1.421 __UINT64_FMTo__ #define __UINT64_FMTo__ "llo" 9.45.1.422 __UINT64_FMTu__ #define __UINT64_FMTu__ "llu" 9.45.1.423 __UINT64_FMTX__ #define __UINT64_FMTX__ "11X" 9.45.1.424 __UINT64_FMTx__

#define __UINT64_FMTx__ "llx"

9.45.1.425 __UINT64_MAX__

#define __UINT64_MAX__ 18446744073709551615ULL

9.45.1.426 __UINT64_TYPE__

#define __UINT64_TYPE__ long long unsigned int

9.45.1.427 __UINT8_C_SUFFIX__

#define __UINT8_C_SUFFIX__

9.45.1.428 __UINT8_FMTo__

#define __UINT8_FMTo__ "hho"

9.45.1.429 __UINT8_FMTu__

#define __UINT8_FMTu__ "hhu"

9.45.1.430 __UINT8_FMTX__

#define __UINT8_FMTX__ "hhX"

9.45.1.431 __UINT8_FMTx__

#define __UINT8_FMTx__ "hhx"

9.45.1.432 __UINT8_MAX__

#define __UINT8_MAX__ 255

9.45.1.433 __UINT8_TYPE__

#define __UINT8_TYPE_ unsigned char

9.45.1.434 __UINT_FAST16_FMTo__

#define __UINT_FAST16_FMTo__ "ho"

9.45.1.435 __UINT_FAST16_FMTu__ #define __UINT_FAST16_FMTu__ "hu" 9.45.1.436 __UINT_FAST16_FMTX__ #define __UINT_FAST16_FMTX__ "hX" 9.45.1.437 __UINT_FAST16_FMTx__ #define __UINT_FAST16_FMTx__ "hx" 9.45.1.438 __UINT_FAST16_MAX__ #define __UINT_FAST16_MAX__ 65535 9.45.1.439 __UINT_FAST16_TYPE__ #define __UINT_FAST16_TYPE_ unsigned short 9.45.1.440 __UINT_FAST32_FMTo__ #define __UINT_FAST32_FMTo__ "o" 9.45.1.441 __UINT_FAST32_FMTu__ #define __UINT_FAST32_FMTu__ "u" 9.45.1.442 __UINT_FAST32_FMTX__ #define __UINT_FAST32_FMTX__ "X" 9.45.1.443 __UINT_FAST32_FMTx__ #define __UINT_FAST32_FMTx__ "x" 9.45.1.444 __UINT_FAST32_MAX__

#define __UINT_FAST32_MAX__ 4294967295U

9.45.1.445 __UINT_FAST32_TYPE__

#define __UINT_FAST32_TYPE_ unsigned int

9.45.1.446 __UINT_FAST64_FMTo__

#define __UINT_FAST64_FMTo__ "llo"

9.45.1.447 __UINT_FAST64_FMTu__

#define __UINT_FAST64_FMTu__ "llu"

9.45.1.448 __UINT_FAST64_FMTX__

#define __UINT_FAST64_FMTX__ "11X"

9.45.1.449 __UINT_FAST64_FMTx__

#define __UINT_FAST64_FMTx__ "llx"

9.45.1.450 __UINT_FAST64_MAX__

#define __UINT_FAST64_MAX__ 18446744073709551615ULL

9.45.1.451 __UINT_FAST64_TYPE__

#define __UINT_FAST64_TYPE__ long long unsigned int

9.45.1.452 __UINT_FAST8_FMTo__

#define __UINT_FAST8_FMTo__ "hho"

9.45.1.453 __UINT_FAST8_FMTu__

#define __UINT_FAST8_FMTu__ "hhu"

9.45.1.454 __UINT_FAST8_FMTX__

#define __UINT_FAST8_FMTX__ "hhX"

9.45.1.455 __UINT_FAST8_FMTx__ #define __UINT_FAST8_FMTx__ "hhx" 9.45.1.456 __UINT_FAST8_MAX__ #define __UINT_FAST8_MAX__ 255 9.45.1.457 __UINT_FAST8_TYPE__ #define __UINT_FAST8_TYPE_ unsigned char 9.45.1.458 __UINT_LEAST16_FMTo__ #define __UINT_LEAST16_FMTo__ "ho" 9.45.1.459 __UINT_LEAST16_FMTu__ #define __UINT_LEAST16_FMTu__ "hu" 9.45.1.460 __UINT_LEAST16_FMTX__ #define __UINT_LEAST16_FMTX__ "hX" 9.45.1.461 __UINT_LEAST16_FMTx__ #define __UINT_LEAST16_FMTx__ "hx" 9.45.1.462 __UINT_LEAST16_MAX__ #define __UINT_LEAST16_MAX__ 65535 9.45.1.463 __UINT_LEAST16_TYPE__ #define __UINT_LEAST16_TYPE_ unsigned short 9.45.1.464 __UINT_LEAST32_FMTo__

#define __UINT_LEAST32_FMTo__ "o"

9.45.1.465 __UINT_LEAST32_FMTu__

#define __UINT_LEAST32_FMTu_ "u"

9.45.1.466 __UINT_LEAST32_FMTX__

#define __UINT_LEAST32_FMTX__ "X"

9.45.1.467 __UINT_LEAST32_FMTx__

#define __UINT_LEAST32_FMTx__ "x"

9.45.1.468 __UINT_LEAST32_MAX__

#define __UINT_LEAST32_MAX__ 4294967295U

9.45.1.469 __UINT_LEAST32_TYPE__

#define __UINT_LEAST32_TYPE_ unsigned int

9.45.1.470 __UINT_LEAST64_FMTo__

#define __UINT_LEAST64_FMTo__ "llo"

9.45.1.471 __UINT_LEAST64_FMTu__

#define __UINT_LEAST64_FMTu__ "llu"

9.45.1.472 __UINT_LEAST64_FMTX__

#define __UINT_LEAST64_FMTX__ "11X"

9.45.1.473 __UINT_LEAST64_FMTx__

#define __UINT_LEAST64_FMTx__ "11x"

9.45.1.474 __UINT_LEAST64_MAX__

#define __UINT_LEAST64_MAX__ 18446744073709551615ULL

9.45.1.475 __UINT_LEAST64_TYPE__ #define __UINT_LEAST64_TYPE_ long long unsigned int 9.45.1.476 __UINT_LEAST8_FMTo__ #define __UINT_LEAST8_FMTo__ "hho" 9.45.1.477 __UINT_LEAST8_FMTu__ #define __UINT_LEAST8_FMTu__ "hhu" 9.45.1.478 __UINT_LEAST8_FMTX__ #define __UINT_LEAST8_FMTX__ "hhX" 9.45.1.479 __UINT_LEAST8_FMTx__ #define __UINT_LEAST8_FMTx__ "hhx" 9.45.1.480 __UINT_LEAST8_MAX__ #define __UINT_LEAST8_MAX__ 255 9.45.1.481 __UINT_LEAST8_TYPE__ #define __UINT_LEAST8_TYPE_ unsigned char 9.45.1.482 __UINTMAX_C_SUFFIX__ #define __UINTMAX_C_SUFFIX__ UL 9.45.1.483 __UINTMAX_FMTo__

#define __UINTMAX_FMTo__ "lo"

9.45.1.484 __UINTMAX_FMTu__

#define __UINTMAX_FMTu__ "lu"

9.45.1.485 __UINTMAX_FMTX__ #define __UINTMAX_FMTX__ "lx"

9.45.1.486 __UINTMAX_FMTx__

#define __UINTMAX_FMTx__ "lx"

9.45.1.487 __UINTMAX_MAX__

#define __UINTMAX_MAX__ 18446744073709551615UL

9.45.1.488 __UINTMAX_TYPE__

#define __UINTMAX_TYPE__ long unsigned int

9.45.1.489 __UINTMAX_WIDTH__

#define __UINTMAX_WIDTH__ 64

9.45.1.490 __UINTPTR_FMTo__

#define __UINTPTR_FMTo__ "lo"

9.45.1.491 __UINTPTR_FMTu__

#define __UINTPTR_FMTu__ "lu"

9.45.1.492 __UINTPTR_FMTX__

#define __UINTPTR_FMTX__ "lX"

9.45.1.493 __UINTPTR_FMTx__

#define __UINTPTR_FMTx__ "lx"

9.45.1.494 __UINTPTR_MAX__

#define __UINTPTR_MAX__ 18446744073709551615UL

9.45.1.495 __UINTPTR_TYPE__ #define __UINTPTR_TYPE_ long unsigned int 9.45.1.496 __UINTPTR_WIDTH__ #define __UINTPTR_WIDTH__ 64 9.45.1.497 __unsafe_unretained #define __unsafe_unretained 9.45.1.498 __USER_LABEL_PREFIX__ #define __USER_LABEL_PREFIX__ _ 9.45.1.499 __VERSION__ #define __VERSION__ "Apple LLVM 17.0.0 (clang-1700.0.13.3)" 9.45.1.500 __WCHAR_MAX__ #define __WCHAR_MAX__ 2147483647 9.45.1.501 __WCHAR_TYPE__ #define __WCHAR_TYPE__ int 9.45.1.502 __WCHAR_WIDTH__ #define __WCHAR_WIDTH__ 32 9.45.1.503 __weak #define __weak __attribute__((objc_gc(weak))) 9.45.1.504 __WINT_MAX__

#define __WINT_MAX__ 2147483647

9.45.1.505 __WINT_TYPE__

#define __WINT_TYPE__ int

9.45.1.506 __WINT_WIDTH__

#define __WINT_WIDTH__ 32

9.45.1.507 _LP64

#define _LP64 1

9.45.1.508 QT_CHARTS_LIB

#define QT_CHARTS_LIB 1

9.45.1.509 QT_CHARTS_USE_NAMESPACE

#define QT_CHARTS_USE_NAMESPACE 1

9.45.1.510 QT_CONCURRENT_LIB

#define QT_CONCURRENT_LIB 1

9.45.1.511 QT_CORE_LIB

#define QT_CORE_LIB 1

9.45.1.512 QT_GUI_LIB

#define QT_GUI_LIB 1

9.45.1.513 QT_NETWORK_LIB

#define QT_NETWORK_LIB 1

9.45.1.514 QT_NO_DEBUG

#define QT_NO_DEBUG 1

9.45.1.515 QT_OPENGL_LIB

#define QT_OPENGL_LIB 1

9.45.1.516 QT_OPENGLWIDGETS_LIB

#define QT_OPENGLWIDGETS_LIB 1

9.45.1.517 QT_WIDGETS_LIB

#define QT_WIDGETS_LIB 1

9.45.1.518 SIZEOF_DPTR

#define SIZEOF_DPTR (sizeof(void*))

9.45.1.519 TARGET_IPHONE_SIMULATOR

#define TARGET_IPHONE_SIMULATOR 0

9.45.1.520 TARGET_OS_ARROW

#define TARGET_OS_ARROW 1

9.45.1.521 TARGET_OS_BRIDGE

#define TARGET_OS_BRIDGE 0

9.45.1.522 TARGET_OS_DRIVERKIT

#define TARGET_OS_DRIVERKIT 0

9.45.1.523 TARGET_OS_EMBEDDED

#define TARGET_OS_EMBEDDED 0

9.45.1.524 TARGET_OS_IOS

#define TARGET_OS_IOS 0

9.45.1.525 TARGET_OS_IOSMAC

#define TARGET_OS_IOSMAC 0

9.45.1.526 TARGET_OS_IPHONE

#define TARGET_OS_IPHONE 0

9.45.1.527 TARGET_OS_LINUX

#define TARGET_OS_LINUX 0

9.45.1.528 TARGET_OS_MAC

#define TARGET_OS_MAC 1

9.45.1.529 TARGET_OS_MACCATALYST

#define TARGET_OS_MACCATALYST 0

9.45.1.530 TARGET_OS_NANO

#define TARGET_OS_NANO 0

9.45.1.531 TARGET_OS_OSX

#define TARGET_OS_OSX 1

9.45.1.532 TARGET_OS_SIMULATOR

#define TARGET_OS_SIMULATOR 0

9.45.1.533 TARGET_OS_TV

#define TARGET_OS_TV 0

9.45.1.534 TARGET_OS_UIKITFORMAC

#define TARGET_OS_UIKITFORMAC 0

9.45.1.535 TARGET_OS_UNIX

#define TARGET_OS_UNIX 0

9.45.1.536 TARGET_OS_VISION

#define TARGET_OS_VISION 0

9.45.1.537 TARGET_OS_WATCH

#define TARGET_OS_WATCH 0

9.45.1.538 TARGET_OS_WIN32

#define TARGET_OS_WIN32 0

9.45.1.539 TARGET_OS_WINDOWS

#define TARGET_OS_WINDOWS 0

9.45.1.540 TARGET_OS_XR

#define TARGET_OS_XR 0

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浏览该文件的文档.

```
00001 #define QT_CHARTS_LIB 1
00002 #define QT_CHARTS_USE_NAMESPACE 1
00003 #define QT_CONCURRENT_LIB 1
00004 #define QT_CORE_LIB 1
00005 #define QT_GUI_LIB 1
00006 #define QT.NETWORK.LIB 1
00007 #define QT.NO.DEBUG 1
00008 #define QT.OPENGLWIDGETS.LIB 1
00009 #define QT_OPENGL_LIB 1
00010 #define QT_WIDGETS_LIB 1
00011 #define SIZEOF_DPTR (sizeof(void*))
00012 #define TARGET_IPHONE_SIMULATOR 0
00013 #define TARGET_OS_ARROW 1
00014 #define TARGET_OS_BRIDGE 0
00015 #define TARGET_OS_DRIVERKIT 0
00016 #define TARGET_OS_EMBEDDED 0
00017 #define TARGET_OS_IOS 0
00018 #define TARGET_OS_IOSMAC 0
00019 #define TARGET_OS_IPHONE 0
00020 #define TARGET_OS_LINUX 0
00021 #define TARGET_OS_MAC 1
00022 #define TARGET_OS_MACCATALYST 0
00023 #define TARGET_OS_NANO 0
00024 #define TARGET_OS_OSX 1
00025 #define TARGET_OS_SIMULATOR 0
00026 #define TARGET_OS_TV 0
00027 #define TARGET_OS_UIKITFORMAC 0
00028 #define TARGET_OS_UNIX 0
00029 #define TARGET_OS_VISION 0
```

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```
00030 #define TARGET_OS_WATCH 0
00031 #define TARGET_OS_WIN32 0
00032 #define TARGET_OS_WINDOWS 0
00033 #define TARGET_OS_XR 0
00034 #define _LP64 1
00035 #define __AARCH64EL__ 1
00036 #define __AARCH64_CMODEL_SMALL__ 1
00037 #define __AARCH64_SIMD__ 1
00038 #define __APPLE_CC__ 6000
00039 #define __APPLE__ 1
00040 #define __ARM64_ARCH_8__ 1
00041 #define __ARM_64BIT_STATE 1
00042 #define __ARM_ACLE 200
00043 #define __ARM_ALIGN_MAX_STACK_PWR 4
00044 #define __ARM_ARCH 8
00045 #define __ARM_ARCH_8_3__
00046 #define __ARM_ARCH_8_4__ 1
00047 #define _ARM_ARCH_8_5__ 1
00048 #define _ARM_ARCH_ISA_A64 1
00049 #define __ARM_ARCH_PROFILE 'A'
00050 #define _ARM_FEATURE_AES 1
00051 #define __ARM_FEATURE_ATOMICS 1
00052 #define __ARM_FEATURE_BTI 1
00053 #define _ARM_FEATURE_CLZ 1
00054 #define __ARM_FEATURE_COMPLEX 1
00055 #define __ARM_FEATURE_CRC32 1
00056 #define __ARM_FEATURE_CRYPTO 1
00057 #define __ARM_FEATURE_DIRECTED_ROUNDING 1
00058 #define __ARM_FEATURE_DIV 1
00059 #define _ARM_FEATURE_DOTPROD 1
00060 #define __ARM_FEATURE_FMA 1
00061 #define __ARM_FEATURE_FP16_FML 1
00062 #define _ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1
00063 #define __ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1
00064 #define __ARM_FEATURE_FRINT 1
00065 #define __ARM_FEATURE_IDIV 1
00066 #define __ARM_FEATURE_JCVT 1
00067 #define __ARM_FEATURE_LDREX 0xF
00068 #define __ARM_FEATURE_NUMERIC_MAXMIN 1
00069 #define __ARM_FEATURE_PAUTH 1
00070 #define __ARM_FEATURE_QRDMX 1
00071 #define __ARM_FEATURE_RCPC 1
00072 #define __ARM_FEATURE_SHA2 1
00073 #define __ARM_FEATURE_SHA3 1
00074 #define __ARM_FEATURE_SHA512 1
00075 #define __ARM_FEATURE_UNALIGNED 1
00076 #define __ARM_FP 0xE
00077 #define __ARM_FP16_ARGS 1
00078 #define _ARM_FP16_FORMAT_IEEE 1
00079 #define __ARM_NEON 1
00080 #define __ARM_NEON_FP 0xE
00081 #define __ARM_NEON__ 1
00082 #define __ARM_PCS_AAPCS64 1
00083 #define __ARM_SIZEOF_MINIMAL_ENUM 4
00084 #define _ARM_SIZEOF_WCHAR_T 4
00085 #define __ARM_STATE_ZA 1
00086 #define __ARM_STATE_ZTO 1
00087 #define __ATOMIC_ACQUIRE 2
00088 #define __ATOMIC_ACQ_REL 4
00089 #define __ATOMIC_CONSUME 1
00090 #define _ATOMIC_RELAXED 0
00091 #define __ATOMIC_RELEASE 3
00092 #define __ATOMIC_SEQ_CST 5
00093 #define __BIGGEST_ALIGNMENT_
00094 #define __BITINT_MAXWIDTH__ 128
00095 #define __BLOCKS__ 1
00096 #define _BOOL_WIDTH_ 8
00097 #define _BYTE_ORDER___ORDER_LITTLE_ENDIAN__
00098 #define _-CHAR16_TYPE__ unsigned short
00099 #define __CHAR32_TYPE__ unsigned int
00100 #define __CHAR_BIT__ 8
00101 #define __CLANG_ATOMIC_BOOL_LOCK_FREE 2
00102 #define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2
00103 #define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2
00104 #define __CLANG_ATOMIC_CHAR_LOCK_FREE 2
00105 #define __CLANG_ATOMIC_INT_LOCK_FREE 2
00106 #define __CLANG_ATOMIC_LLONG_LOCK_FREE 2
00107 #define __CLANG_ATOMIC_LONG_LOCK_FREE 2
00108 #define __CLANG_ATOMIC_POINTER_LOCK_FREE 2
00109 #define __CLANG_ATOMIC_SHORT_LOCK_FREE 2
00110 #define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2
00111 #define __CONSTANT_CFSTRINGS__ 1
00112 #define __DBL_DECIMAL_DIG__ 17
00113 #define __DBL_DENORM_MIN__ 4.9406564584124654e-324
00114 #define __DBL_DIG__ 15
00115 #define __DBL_EPSILON__ 2.2204460492503131e-16
00116 #define __DBL_HAS_DENORM__ 1
```

```
00117 #define __DBL_HAS_INFINITY__ 1
00118 #define _DBL_HAS_QUIET_NAN__ 1
00119 #define __DBL_MANT_DIG__ 53
00120 #define __DBL_MAX_10_EXP__ 308
00121 #define _LDBL_MAX_EXP__ 1024
00122 #define _LDBL_MAX__ 1.7976931348623157e+308
00123 #define _LDBL_MIN_10_EXP__ (-307)
00124 #define __DBL_MIN_EXP__ (-1021)
00125 #define __DBL_MIN__ 2.2250738585072014e-308
00126 #define __DBL_NORM_MAX__ 1.7976931348623157e+308
00127 #define __DECIMAL_DIG__ _LDBL_DECIMAL_DIG__
00128 #define __DEPRECATED 1
00129 #define __DYNAMIC__ 1
00130 #define _ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED_ 150000
00131 #define _ENVIRONMENT_OS_VERSION_MIN_REQUIRED_ 150000
00132 #define __EXCEPTIONS 1
00133 #define __FINITE_MATH_ONLY__ 0
00134 #define __FLT16_DECIMALDIG__ 5
00135 #define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16
00136 #define __FLT16_DIG__ 3
00137 #define __FLT16_EPSILON__ 9.765625e-4F16
00138 #define __FLT16_HAS_DENORM__ 1
00139 #define __FLT16_HAS_INFINITY__ 1
00140 #define __FLT16_HAS_QUIET_NAN__ 1
00141 #define _FLT16_MANT_DIG__ 11
00142 #define __FLT16_MAX_10_EXP__ 4
00143 #define __FLT16_MAX_EXP__ 16
00144 #define __FLT16_MAX__ 6.5504e+4F16
00145 #define __FLT16_MIN_10_EXP__ (-4)
00146 #define __FLT16_MIN_EXP__ (-13)
00147 #define __FLT16_MIN__ 6.103515625e-5F16
00148 #define __FLT16_NORM_MAX__ 6.5504e+4F16
00149 #define __FLT_DECIMAL_DIG__ 9
00150 #define __FLT_DENORM_MIN_ 1.40129846e-45F
00151 #define __FLT_DIG__ 6
00152 #define __FLT_EPSILON__ 1.19209290e-7F
00153 #define __FLT_HAS_DENORM__ 1
00154 #define __FLT_HAS_INFINITY__ 1
00155 #define __FLT_HAS_QUIET_NAN__ 1
00156 #define __FLT_MANT_DIG__ 24
00157 #define __FLT_MAX_10_EXP__ 38
00158 #define __FLT_MAX_EXP__ 128
00159 #define __FLT_MAX__ 3.40282347e+38F
00160 #define __FLT_MIN_10_EXP__ (-37)
00161 #define __FLT_MIN_EXP__ (-125)
00162 #define __FLT_MIN__ 1.17549435e-38F
00163 #define __FLT_NORM_MAX__ 3.40282347e+38F
00164 #define __FLT_RADIX__ 2
00165 #define __FPCLASS_NEGINF 0x0004
00166 #define __FPCLASS_NEGNORMAL 0x0008
00167 #define __FPCLASS_NEGSUBNORMAL 0x0010
00168 #define __FPCLASS_NEGZERO 0x0020
00169 #define __FPCLASS_POSINF 0x0200
00170 #define __FPCLASS_POSNORMAL 0x0100
00171 #define __FPCLASS_POSSUBNORMAL 0x0080
00172 #define __FPCLASS_POSZERO 0x0040
00173 #define __FPCLASS_QNAN 0x0002
00174 #define __FPCLASS_SNAN 0x0001
00175 #define __FP_FAST_FMA 1
00176 #define __FP_FAST_FMAF 1
00177 #define __GCC_ASM_FLAG_OUTPUTS__ 1
00178 #define __GCC_ATOMIC_BOOL_LOCK_FREE 2
00179 #define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2
00180 #define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2
00181 #define __GCC_ATOMIC_CHAR_LOCK_FREE 2
00182 #define __GCC_ATOMIC_INT_LOCK_FREE 2
00183 #define __GCC_ATOMIC_LLONG_LOCK_FREE 2
00184 #define __GCC_ATOMIC_LONG_LOCK_FREE 2
00185 #define __GCC_ATOMIC_POINTER_LOCK_FREE 2
00186 #define __GCC_ATOMIC_SHORT_LOCK_FREE 2
00187 #define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1
00188 #define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2
00189 #define __GCC_CONSTRUCTIVE_SIZE 64
00190 #define __GCC_DESTRUCTIVE_SIZE 64
00191 #define __GCC_HAVE_DWARF2_CFI_ASM 1
00192 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1
00193 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1
00194 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1
00195 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4
00196 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1
00197 #define __GLIBCXX_BITSIZE_INT_N_0 128
00198 #define __GLIBCXX_TYPE_INT_N_0 __int128
00199 #define __GNUC_GNU_INLINE__ 1
00200 #define __GNUC_MINOR__ 2
00201 #define __GNUC_PATCHLEVEL__ 1
00202 #define __GNUC__ 4
00203 #define __GNUG__ 4
```

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00204 #define __GXX_ABI_VERSION 1002
00205 #define __GXX_EXPERIMENTAL_CXX0X__ 1
00206 #define __GXX_RTTI 1
00207 #define __GXX_WEAK__ 1
00208 #define __HAVE_FUNCTION_MULTI_VERSIONING 1
00209 #define __INT16_C_SUFFIX__
00210 #define __INT16_FMTd__ "hd"
00211 #define __INT16_FMTi__ "hi"
00212 #define __INT16_MAX__ 32767
00213 #define __INT16_TYPE_ short
00214 #define __INT32_C_SUFFIX__
00215 #define __INT32_FMTd__ "d"
00216 #define __INT32_FMTi__ "i"
00217 #define __INT32_MAX__ 2147483647
00218 #define __INT32_TYPE_ int
00219 #define ...INT64.C.SUFFIX.. LL
00220 #define ...INT64.FMTd.. "lld"
00221 #define ...INT64.FMTd.. "lli"
00222 #define __INT64_MAX__ 9223372036854775807LL
00223 #define __INT64_TYPE__ long long int
00224 #define __INT8_C_SUFFIX__
00225 #define __INT8_FMTd__ "hhd"
00226 #define __INT8_FMTi__ "hhi"
00227 #define __INT8_MAX__ 127
00228 #define __INT8_TYPE__ signed char
00229 #define __INTMAX_C_SUFFIX__ L
00230 #define __INTMAX_FMTd__ "ld"
00231 #define __INTMAX_FMTi__ "li"
00232 #define __INTMAX_MAX__ 9223372036854775807L
00233 #define __INTMAX_TYPE_ long int
00234 #define __INTMAX_WIDTH__ 64
00235 #define __INTPTR_FMTd__ "ld" 00236 #define __INTPTR_FMTi__ "li"
00237 #define __INTPTR_MAX_ 9223372036854775807L
00238 #define __INTPTR_TYPE_ long int
00239 #define __INTPTR_WIDTH__ 64
00240 #define __INT_FAST16_FMTd__ "hd"
00241 #define __INT_FAST16_FMTi__ "hi"
00242 #define __INT_FAST16_MAX__ 32767
00243 #define __INT_FAST16_TYPE_ short
00244 #define _.INT_FAST16_WIDTH._ 16
00245 #define _.INT_FAST32_FMTd._ "d"
00246 #define _.INT_FAST32_FMTi._ "i"
00247 #define _.INT_FAST32_MAX._ 2147483647
00248 #define __INT_FAST32_TYPE__ int
00249 #define __INT_FAST32_WIDTH__ 32
00250 #define __INT_FAST64_FMTi__ "lld"

00251 #define __INT_FAST64_FMTi__ "lli"

00252 #define __INT_FAST64_MAX__ 9223372036854775807LL

00253 #define __INT_FAST64_TYPE__ long long int
00254 #define __INT_FAST64_WIDTH__ 64
00255 #define __INT_FAST8_FMTd__ "hhd" 00256 #define __INT_FAST8_FMTi__ "hhi"
00257 #define __INT_FAST8_MAX__ 127
00258 #define __INT_FAST8_TYPE_ signed char
00259 #define __INT_FAST8_WIDTH__ 8
00260 #define __INT_LEAST16_FMTd__ "hd"
00261 #define __INT_LEAST16_FMTi__ "hi"
00262 #define __INT_LEAST16_MAX__ 32767
00263 #define __INT_LEAST16_TYPE__ short
00264 #define __INT_LEAST16_WIDTH__ 16
00265 #define __INT_LEAST32_FMTd__ "d"
00266 #define __INT_LEAST32_FMTi__ "i"
00267 #define __INT_LEAST32_MAX__ 2147483647
00268 #define __INT_LEAST32_TYPE_ int
00269 #define _INT_LEAST32_WIDTH__ 32
00270 #define _INT_LEAST64_FMTd__ "lld"
00271 #define _INT_LEAST64_FMTi__ "lli"
00272 #define __INT_LEAST64_MAX__ 9223372036854775807LL
00273 #define __INT_LEAST64_TYPE__ long long int
00274 #define __INT_LEAST64_WIDTH__ 64
00275 #define __INT_LEAST8_FMTd__ "hhd"
00276 #define __INT_LEAST8_FMTi__ "hhi"
00277 #define __INT_LEAST8_MAX__ 127
00278 #define __INT_LEAST8_TYPE_ signed char
00279 #define __INT_LEAST8_WIDTH__ 8
00280 #define __INT_MAX__ 2147483647
00281 #define __INT_WIDTH__ 32
00282 #define _LDBL_DECIMAL_DIG__ 17
00283 #define _LDBL_DENORM_MIN_ 4.9406564584124654e-324L
00284 #define __LDBL_DIG__ 15
00285 #define _LDBL_EPSILON_ 2.2204460492503131e-16L
00286 #define _LDBL_HAS_DENORM_ 1
00287 #define __LDBL_HAS_INFINITY_
00288 #define __LDBL_HAS_QUIET_NAN__ 1
00289 #define _LDBL_MANT_DIG_ 53
00290 #define _LDBL_MAX_10_EXP__ 308
```

```
00291 #define __LDBL_MAX_EXP__ 1024
00292 #define _LDBL_MAX._ 1.7976931348623157e+308L
00293 #define _LDBL_MIN_10_EXP__ (-307)
00294 #define _LDBL_MIN_EXP_ (-1021)
00295 #define _LDBL_MIN_ 2.2250738585072014e-308L
00296 #define _LDBL_NORM_MAX_ 1.7976931348623157e+308L
00297 #define __LITTLE_ENDIAN__ 1
00298 #define __LLONG_WIDTH__ 64
00299 #define __LONG_LONG_MAX__ 9223372036854775807LL
00300 #define _LONG_MAX__ 9223372036854775807L 00301 #define _LONG_WIDTH__ 64
00302 #define __LP64__ 1
00303 #define __MACH__ 1
00304 #define __MEMORY_SCOPE_DEVICE 1
00305 #define __MEMORY_SCOPE_SINGLE 4
00306 #define __MEMORY_SCOPE_SYSTEM 0
00307 #define _MEMORY_SCOPE_WRKGRP 2
00308 #define __MEMORY_SCOPE_WVFRNT 3
00309 #define __NO_INLINE__ 1
00310 #define __NO_MATH_ERRNO__ 1
00311 #define __OBJC_BOOL_IS_BOOL 1
00312 #define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3
00313 #define __OPENCL_MEMORY_SCOPE_DEVICE 2
00314 #define _OPENCL_MEMORY_SCOPE_SUB_GROUP 4
00315 #define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1
00316 #define __OPENCL_MEMORY_SCOPE_WORK_ITEM 0
00317 #define __ORDER_BIG_ENDIAN__ 4321
00318 #define __ORDER_LITTLE_ENDIAN__ 1234
00319 #define __ORDER_PDP_ENDIAN__ 3412
00320 #define __PIC__ 2
00321 #define __POINTER_WIDTH__ 64
00322 #define __PRAGMA_REDEFINE_EXTNAME 1
00323 #define __PTRDIFF_FMTd__ "ld"
00324 #define __PTRDIFF_FMTi__ "li"
00325 #define __PTRDIFF_MAX__ 9223372036854775807L
00326 #define __PTRDIFF_TYPE_ long int
00327 #define _PTRDIFF_WIDTH_ 64
00328 #define _REGISTER_PREFIX_
00329 #define __SCHAR_MAX__ 127
00330 #define __SHRT_MAX__ 32767
00331 #define __SHRT_WIDTH__ 16
00332 #define __SIG_ATOMIC_MAX__ 2147483647
00333 #define __SIG_ATOMIC_WIDTH__ 32
00334 #define __SIZEOF_DOUBLE__ 8
00335 #define __SIZEOF_FLOAT__ 4
00336 #define __SIZEOF_INT128__ 16
00337 #define __SIZEOF_INT__ 4
00338 #define __SIZEOF_LONG_DOUBLE__ 8
00339 #define __SIZEOF_LONG_LONG_ 8
00340 #define __SIZEOF_LONG__ 8
00341 #define __SIZEOF_POINTER__ 8
00342 #define __SIZEOF_PTRDIFF_T_ 8
00343 #define __SIZEOF_SHORT__ 2
00344 #define __SIZEOF_SIZE_T__ 8
00345 #define __SIZEOF_WCHAR_T_ 4
00346 #define __SIZEOF_WINT_T_ 4
00347 #define _SIZE_FMTX_ "1X"
00348 #define _SIZE_FMTO_ "10"
00349 #define __SIZE_FMTu__ "lu"
00350 #define __SIZE_FMTx__ "lx"
00351 #define _.SIZE_MAX__ 18446744073709551615UL
00352 #define _.SIZE_TYPE__ long unsigned int
00353 #define __SIZE_WIDTH__ 64
00354 #define __SSP__ 1
00355 #define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL
00356 #define __STDCPP_THREADS__ 1
00357 #define __STDC_EMBED_EMPTY__ 2
00358 #define _STDC_EMBED_FOUND__ 1
00359 #define __STDC_EMBED_NOT_FOUND__ 0
00360 #define __STDC_HOSTED__ 1
00361 #define __STDC_NO_THREADS__ 1
00362 #define __STDC_UTF_16__ 1
00363 #define __STDC_UTF_32__
00364 #define __STDC__ 1
00365 #define __UINT16_C_SUFFIX_.
00366 #define __UINT16_FMTX__ "hX"
00367 #define __UINT16_FMTo__ "ho"
00368 #define __UINT16_FMTu__ "hu"
00369 #define __UINT16_FMTx__ "hx"
00370 #define __UINT16_MAX__ 65535
00371 #define __UINT16_TYPE__ unsigned short
00372 #define __UINT32_C_SUFFIX__ U
00373 #define __UINT32_FMTX__ "X"
00374 #define __UINT32_FMTO__ "o"
00375 #define __UINT32_FMTu__ "u"
00376 #define _UINT32_FMTx__ "x"
00377 #define _UINT32_MAX__ 4294967295U
```

```
00378 #define __UINT32_TYPE__ unsigned int
00379 #define __UINT64_C_SUFFIX__ ULL
00380 #define __UINT64_FMTX__ "11X"
00381 #define __UINT64_FMTo__ "110"
00382 #define __UINT64_FMTu__ "llu"
00383 #define __UINT64_FMTx__ "llx"
00384 #define __UINT64_MAX__ 18446744073709551615ULL
00385 #define __UINT64_TYPE__ long long unsigned int
00386 #define __UINT8_C_SUFFIX__
00387 #define __UINT8_FMTX__ "hhX" 00388 #define __UINT8_FMTo__ "hho"
00389 #define __UINT8_FMTu__ "hhu"
00390 #define __UINT8_FMTx__ "hhx"
00391 #define __UINT8_MAX__ 255
00392 #define __UINT8_TYPE_ unsigned char
00393 #define _UINTMAX_C_SUFFIX__ UL
00394 #define _UINTMAX_FMTX__ "lX"
00395 #define _UINTMAX_FMTO__ "lo"
00396 #define __UINTMAX_FMTu__ "lu"
00397 #define __UINTMAX_FMTx__ "lx"
00398 #define __UINTMAX_MAX__ 18446744073709551615UL
00399 #define __UINTMAX_TYPE_ long unsigned int
00400 #define __UINTMAX_WIDTH__ 64
00401 #define __UINTPTR_FMTX__ "lX"
00402 #define __UINTPTR_FMTO__ "lo"
00403 #define __UINTPTR_FMTu__ "lu"
00404 #define __UINTPTR_FMTx__ "lx"
00405 #define __UINTPTR_MAX__ 18446744073709551615UL
00406 #define __UINTPTR_TYPE_ long unsigned int
00407 #define __UINTPTR_WIDTH__ 64
00408 #define __UINT_FAST16_FMTX__ "hX"
00409 #define __UINT_FAST16_FMTo__ "ho"
00410 #define __UINT_FAST16_FMTu__ "hu"
00411 #define __UINT_FAST16_FMTx__ "hx"
00412 #define __UINT_FAST16_MAX__ 65535
00413 #define __UINT_FAST16_TYPE_ unsigned short
00414 #define __UINT_FAST32_FMTX__ "X" 00415 #define __UINT_FAST32_FMTo__ "o"
00416 #define __UINT_FAST32_FMTu__ "u"
00417 #define __UINT_FAST32_FMTx__ "x"
00418 #define __UINT_FAST32_MAX__ 4294967295U
00419 #define _UINT_FAST32_TYPE_ unsigned int
00420 #define _UINT_FAST64_FMTX_ "11X"
00421 #define _UINT_FAST64_FMTO_ "11o"
00422 #define __UINT_FAST64_FMTu__ "llu"
00423 #define __UINT_FAST64_FMTx__ "llx"
00424 #define __UINT_FAST64_MAX__ 18446744073709551615ULL
00425 #define _UINT_FAST64_TYPE.. long long unsigned int 00426 #define _UINT_FAST8_FMTX__ "hhX"
00427 #define __UINT_FAST8_FMTo__ "hho"
00428 #define __UINT_FAST8_FMTu__ "hhu"
00429 #define __UINT_FAST8_FMTx__ "hhx"
00430 #define __UINT_FAST8_MAX__ 255
00431 #define __UINT_FAST8_TYPE__ unsigned char
00432 #define __UINT_LEAST16_FMTX__ "hX"
00433 #define __UINT_LEAST16_FMTo__ "ho"
00434 #define __UINT_LEAST16_FMTu__ "hu"
00435 #define __UINT_LEAST16_FMTx__ "hx"
00436 #define __UINT_LEAST16_MAX__ 65535
00437 #define _UINT_LEAST16_TYPE_ unsigned short
00438 #define _UINT_LEAST32_FMTX_ "X"
00439 #define __UINT_LEAST32_FMTo__ "o"
00440 #define __UINT_LEAST32_FMTu__ "u"
00441 #define __UINT_LEAST32_FMTx__ "x"
00442 #define __UINT_LEAST32_MAX_ 4294967295U
00443 #define __UINT_LEAST32_TYPE_ unsigned int
00444 #define _UINT_LEAST64_FMTX_ "11X" 00445 #define _UINT_LEAST64_FMTO_ "110"
00446 #define __UINT_LEAST64_FMTu__ "llu"
00447 #define __UINT_LEAST64_FMTx__ "llx"
00448 #define __UINT_LEAST64_MAX__ 18446744073709551615ULL
00449 #define __UINT_LEAST64_TYPE_ long long unsigned int
00450 #define __UINT_LEAST8_FMTX__ "hhX" 00451 #define __UINT_LEAST8_FMTO__ "hho"
00452 #define _UINT_LEAST8_FMTu_ "hhu"
00453 #define _UINT_LEAST8_FMTx_ "hhx"
00454 #define __UINT_LEAST8_MAX__ 255
00455 #define __UINT_LEAST8_TYPE_ unsigned char
00456 #define __USER_LABEL_PREFIX__
00457 #define __VERSION_ "Apple LLVM 17.0.0 (clang-1700.0.13.3)"
00458 #define __WCHAR_MAX__ 2147483647
00459 #define __WCHAR_TYPE_ int
00460 #define __WCHAR_WIDTH__ 32
00461 #define __WINT_MAX_ 2147483647
00462 #define __WINT_TYPE_ int
00463 #define __WINT_WIDTH__ 32
00464 #define __aarch64__ 1
```

```
00465 #define _apple_build_version_ 17000013
00466 #define __arm64 1
00467 #define __arm64__ 1
00468 #define _block _attribute_((_blocks_(byref)))
00469 #define _.clang__ 1
00470 #define _.clang_literal_encoding__ "UTF-8"
00471 #define __clang_major__ 17
00472 #define __clang_minor__ 0
00473 #define __clang_patchlevel__ 0
00474 #define __clang_version_ "17.0.0 (clang-1700.0.13.3)" 00475 #define __clang_wide_literal_encoding_ "UTF-32"
00476 #define _cplusplus 201703L
00477 #define __cpp_aggregate_bases 201603L
00478 #define _cpp_aggregate_nsdmi 201304L
00479 #define _cpp_alias_templates 200704L
00480 #define _cpp_aligned_new 201606L
00481 #define _cpp_attributes 200809L
00482 #define _cpp_binary_literals 201304L
00483 #define _cpp_capture_star_this 201603L
00484 #define _-cpp_constexpr 201603L
00485 #define _cpp_constexpr_in_decltype 201711L
00486 #define _cpp_decltype 200707L
00487 #define _cpp_decltype_auto 201304L
00488 #define _cpp_deduction_guides 201703L
00489 #define _cpp_delegating_constructors 200604L
00490 #define _cpp_deleted_function 202403L
00491 #define _cpp_digit_separators 201309L
00492 #define __cpp_enumerator_attributes 201411L
00493 #define _cpp_exceptions 199711L
00494 #define _cpp_fold_expressions 201603L
00495 #define _cpp_generic_lambdas 201304L
00496 #define _cpp_guaranteed_copy_elision 201606L
00497 #define _cpp_hex_float 201603L
00498 #define _cpp_if_constexpr 201606L
00499 #define _-cpp_impl_destroying_delete 201806L
00500 #define _cpp_inheriting_constructors 201511L
00501 #define _cpp_init_captures 201304L
00502 #define _cpp_initializer_lists 200806L
00503 #define _cpp_inline_variables 201606L
00504 #define _cpp_lambdas 200907L
00505 #define _cpp_named_character_escapes 202207L
00506 #define __cpp_namespace_attributes 201411L
00507 #define --cpp_nested_namespace_definitions 201411L
00508 #define _cpp_noexcept_function_type 201510L
00509 #define __cpp_nontype_template_args 201411L
00510 #define __cpp_nontype_template_parameter_auto 201606L
00511 #define __cpp_nsdmi 200809L
00512 #define _cpp_pack_indexing 202311L
00513 #define _cpp_placeholder_variables 202306L
00514 #define --cpp-range-based-for 201603L
00515 #define __cpp_raw_strings 200710L
00516 #define _cpp_ref_qualifiers 200710L
00517 #define _cpp_return_type_deduction 201304L
00518 #define _cpp_rtti 199711L
00519 #define _cpp_rvalue_references 200610L
00520 #define _cpp_static_assert 201411L
00521 #define __cpp_static_call_operator 202207L
00522 #define _-cpp_structured_bindings 202403L
00523 #define _cpp_template_auto 201606L
00524 #define _cpp_template_template_args 201611L
00525 #define _cpp_threadsafe_static_init 200806L
00526 #define _cpp_unicode_characters 200704L
00527 #define _cpp_unicode_literals 200710L
00528 #define __cpp_user_defined_literals 200809L
00529 #define _cpp_variable_templates 201304L
00530 #define _cpp_variadic_templates 200704L
00531 #define _cpp_variadic_using 201611L 00532 #define _llvm_ 1
00533 #define __nonnull _Nonnull
00534 #define __null_unspecified _Null_unspecified
00535 #define _nullable _Nullable
00536 #define __pic__ 2
00537 #define __private_extern_ extern
00538 #define __strong
00539 #define _unsafe_unretained
00540 #define _weak _attribute_((objc_gc(weak)))
```

9.47 NetScanner₋autogen/moc₋predefs.h 文件参考

宏定义

• #define QT_CHARTS_LIB 1

- #define QT_CORE_LIB 1
- #define QT_GUI_LIB 1
- #define QT_NETWORK_LIB 1
- #define QT_NO_DEBUG 1
- #define QT_OPENGLWIDGETS_LIB 1
- #define QT_OPENGL_LIB 1
- #define QT_WIDGETS_LIB 1
- #define SIZEOF_DPTR (sizeof(void*))
- #define TARGET_IPHONE_SIMULATOR 0
- #define TARGET_OS_ARROW 1
- #define TARGET_OS_BRIDGE 0
- #define TARGET_OS_DRIVERKIT 0
- #define TARGET_OS_EMBEDDED 0
- #define TARGET_OS_IOS 0
- #define TARGET_OS_IOSMAC 0
- #define TARGET_OS_IPHONE 0
- #define TARGET_OS_LINUX 0
- #define TARGET_OS_MAC 1
- #define TARGET_OS_MACCATALYST 0
- #define TARGET_OS_NANO 0
- #define TARGET_OS_OSX 1
- #define TARGET_OS_SIMULATOR 0
- #define TARGET_OS_TV 0
- #define TARGET_OS_UIKITFORMAC 0
- #define TARGET_OS_UNIX 0
- #define TARGET_OS_VISION 0
- #define TARGET_OS_WATCH 0
- #define TARGET_OS_WIN32 0
- #define TARGET_OS_WINDOWS 0
- #define TARGET_OS_XR 0
- #define _LP64 1
- #define __AARCH64EL__ 1
- #define __AARCH64_CMODEL_SMALL__ 1
- #define __AARCH64_SIMD__ 1
- #define __APPLE_CC__ 6000
- #define __APPLE__ 1
- #define __ARM64_ARCH_8__ 1
- #define __ARM_64BIT_STATE 1
- #define __ARM_ACLE 200
- #define __ARM_ALIGN_MAX_STACK_PWR 4
- #define __ARM_ARCH 8
- #define __ARM_ARCH_8_3__ 1
- #define __ARM_ARCH_8_4__ 1
- #define __ARM_ARCH_8_5__ 1
- #define __ARM_ARCH_ISA_A64 1
- #define __ARM_ARCH_PROFILE 'A'
- #define __ARM_FEATURE_AES 1
- #define __ARM_FEATURE_ATOMICS 1
- #define __ARM_FEATURE_BTI 1
- #define __ARM_FEATURE_CLZ 1
- #define __ARM_FEATURE_COMPLEX 1
- #define __ARM_FEATURE_CRC32 1
- #define __ARM_FEATURE_CRYPTO 1
- #define __ARM_FEATURE_DIRECTED_ROUNDING 1
- #define __ARM_FEATURE_DIV 1

- #define __ARM_FEATURE_DOTPROD 1
- #define __ARM_FEATURE_FMA 1
- #define __ARM_FEATURE_FP16_FML 1
- #define __ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1
- #define __ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1
- #define __ARM_FEATURE_FRINT 1
- #define __ARM_FEATURE_IDIV 1
- #define __ARM_FEATURE_JCVT 1
- #define __ARM_FEATURE_LDREX 0xF
- #define __ARM_FEATURE_NUMERIC_MAXMIN 1
- #define __ARM_FEATURE_PAUTH 1
- #define __ARM_FEATURE_QRDMX 1
- #define __ARM_FEATURE_RCPC 1
- #define __ARM_FEATURE_SHA2 1
- #define __ARM_FEATURE_SHA3 1
- #define __ARM_FEATURE_SHA512 1
- #define __ARM_FEATURE_UNALIGNED 1
- #define __ARM_FP 0xE
- #define __ARM_FP16_ARGS 1
- #define __ARM_FP16_FORMAT_IEEE 1
- #define __ARM_NEON 1
- #define __ARM_NEON_FP 0xE
- #define __ARM_NEON__ 1
- #define __ARM_PCS_AAPCS64 1
- #define __ARM_SIZEOF_MINIMAL_ENUM 4
- #define __ARM_SIZEOF_WCHAR_T 4
- #define __ARM_STATE_ZA 1
- #define __ARM_STATE_ZT0 1
- #define __ATOMIC_ACQUIRE 2
- #define __ATOMIC_ACQ_REL 4
- #define __ATOMIC_CONSUME 1
- #define __ATOMIC_RELAXED 0
- #define __ATOMIC_RELEASE 3
- #define __ATOMIC_SEQ_CST 5
- #define __BIGGEST_ALIGNMENT__ 8
- #define __BITINT_MAXWIDTH__ 128
- #define __BLOCKS__ 1
- #define __BOOL_WIDTH__ 8
- #define __BYTE_ORDER__ _ORDER_LITTLE_ENDIAN__
- #define __CHAR16_TYPE__ unsigned short
- #define __CHAR32_TYPE__ unsigned int
- #define __CHAR_BIT__ 8
- #define __CLANG_ATOMIC_BOOL_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2
- #define __CLANG_ATOMIC_CHAR_LOCK_FREE 2
- #define __CLANG_ATOMIC_INT_LOCK_FREE 2
- #define __CLANG_ATOMIC_LLONG_LOCK_FREE 2
- #define __CLANG_ATOMIC_LONG_LOCK_FREE 2
- #define __CLANG_ATOMIC_POINTER_LOCK_FREE 2
- #define __CLANG_ATOMIC_SHORT_LOCK_FREE 2
- #define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2
- #define __CONSTANT_CFSTRINGS__ 1
- #define __DBL_DECIMAL_DIG__ 17
- #define __DBL_DENORM_MIN__ 4.9406564584124654e-324

- #define __DBL_DIG__ 15
- #define __DBL_EPSILON__ 2.2204460492503131e-16
- #define __DBL_HAS_DENORM__ 1
- #define __DBL_HAS_INFINITY__ 1
- #define __DBL_HAS_QUIET_NAN__ 1
- #define __DBL_MANT_DIG__ 53
- #define __DBL_MAX_10_EXP__ 308
- #define __DBL_MAX_EXP__ 1024
- #define __DBL_MAX__ 1.7976931348623157e+308
- #define __DBL_MIN_10_EXP__ (-307)
- #define __DBL_MIN_EXP__ (-1021)
- #define __DBL_MIN__ 2.2250738585072014e-308
- #define __DBL_NORM_MAX__ 1.7976931348623157e+308
- #define __DECIMAL_DIG__ _LDBL_DECIMAL_DIG__
- #define __DEPRECATED 1
- #define __DYNAMIC__ 1
- #define __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__ 150000
- #define __ENVIRONMENT_OS_VERSION_MIN_REQUIRED__ 150000
- #define __EXCEPTIONS 1
- #define __FINITE_MATH_ONLY__ 0
- #define __FLT16_DECIMAL_DIG__ 5
- #define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16
- #define __FLT16_DIG__ 3
- #define __FLT16_EPSILON__ 9.765625e-4F16
- #define __FLT16_HAS_DENORM__ 1
- #define __FLT16_HAS_INFINITY__ 1
- #define __FLT16_HAS_QUIET_NAN__ 1
- #define __FLT16_MANT_DIG__ 11
- #define __FLT16_MAX_10_EXP__ 4
- #define __FLT16_MAX_EXP__ 16
- #define __FLT16_MAX__ 6.5504e+4F16
- #define __FLT16_MIN_10_EXP__ (-4)
- #define __FLT16_MIN_EXP__ (-13)
- #define __FLT16_MIN__ 6.103515625e-5F16
- #define __FLT16_NORM_MAX__ 6.5504e+4F16
- #define __FLT_DECIMAL_DIG__ 9
- #define __FLT_DENORM_MIN__ 1.40129846e-45F
- #define __FLT_DIG__ 6
- #define __FLT_EPSILON__ 1.19209290e-7F
- #define __FLT_HAS_DENORM__ 1
- #define __FLT_HAS_INFINITY__ 1
- #define __FLT_HAS_QUIET_NAN__ 1
- #define __FLT_MANT_DIG__ 24
- #define __FLT_MAX_10_EXP__ 38
- #define __FLT_MAX_EXP__ 128
- #define __FLT_MAX__ 3.40282347e+38F
- #define __FLT_MIN_10_EXP__ (-37)
- #define __FLT_MIN_EXP__ (-125)
- #define __FLT_MIN__ 1.17549435e-38F
- #define __FLT_NORM_MAX__ 3.40282347e+38F
- #define __FLT_RADIX__ 2
- #define __FPCLASS_NEGINF 0x0004
- #define __FPCLASS_NEGNORMAL 0x0008
- #define __FPCLASS_NEGSUBNORMAL 0x0010
- #define __FPCLASS_NEGZERO 0x0020

- #define __FPCLASS_POSINF 0x0200
- #define __FPCLASS_POSNORMAL 0x0100
- #define __FPCLASS_POSSUBNORMAL 0x0080
- #define __FPCLASS_POSZERO 0x0040
- #define __FPCLASS_QNAN 0x0002
- #define __FPCLASS_SNAN 0x0001
- #define __FP_FAST_FMA 1
- #define __FP_FAST_FMAF 1
- #define __GCC_ASM_FLAG_OUTPUTS__ 1
- #define __GCC_ATOMIC_BOOL_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2
- #define __GCC_ATOMIC_CHAR_LOCK_FREE 2
- #define __GCC_ATOMIC_INT_LOCK_FREE 2
- #define __GCC_ATOMIC_LLONG_LOCK_FREE 2
- #define __GCC_ATOMIC_LONG_LOCK_FREE 2
- #define __GCC_ATOMIC_POINTER_LOCK_FREE 2
- #define __GCC_ATOMIC_SHORT_LOCK_FREE 2
- #define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1
- #define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2
- #define __GCC_CONSTRUCTIVE_SIZE 64
- #define __GCC_DESTRUCTIVE_SIZE 64
- #define __GCC_HAVE_DWARF2_CFI_ASM 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1
- #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1
- #define __GLIBCXX_BITSIZE_INT_N_0 128
- #define __GLIBCXX_TYPE_INT_N_0 __int128
- #define __GNUC_GNU_INLINE__ 1
- #define __GNUC_MINOR__ 2
- #define __GNUC_PATCHLEVEL__ 1
- #define __GNUC__ 4
- #define __GNUG__ 4
- #define __GXX_ABI_VERSION 1002
- #define __GXX_EXPERIMENTAL_CXX0X__ 1
- #define __GXX_RTTI 1
- #define __GXX_WEAK__ 1
- #define __HAVE_FUNCTION_MULTI_VERSIONING 1
- #define __INT16_C_SUFFIX__
- #define __INT16_FMTd__ "hd"
- #define __INT16_FMTi__ "hi"
- #define __INT16_MAX__ 32767
- #define __INT16_TYPE__ short
- #define __INT32_C_SUFFIX__
- #define __INT32_FMTd__ "d"
- #define __INT32_FMTi__ "i"
- #define __INT32_MAX__ 2147483647
- #define __INT32_TYPE__ int
- #define __INT64_C_SUFFIX__ LL
- #define __INT64_FMTd__ "Ild"
- #define __INT64_FMTi__ "Ili"
- #define __INT64_MAX__ 9223372036854775807LL
- #define __INT64_TYPE__ long long int

- #define __INT8_C_SUFFIX__
- #define __INT8_FMTd__ "hhd"
- #define __INT8_FMTi__ "hhi"
- #define __INT8_MAX__ 127
- #define __INT8_TYPE__ signed char
- #define __INTMAX_C_SUFFIX__ L
- #define __INTMAX_FMTd__ "Id"
- #define __INTMAX_FMTi__ "li"
- #define __INTMAX_MAX__ 9223372036854775807L
- #define __INTMAX_TYPE__ long int
- #define __INTMAX_WIDTH__ 64
- #define __INTPTR_FMTd__ "Id"
- #define __INTPTR_FMTi__ "li"
- #define __INTPTR_MAX__ 9223372036854775807L
- #define __INTPTR_TYPE__ long int
- #define __INTPTR_WIDTH__ 64
- #define __INT_FAST16_FMTd__ "hd"
- #define __INT_FAST16_FMTi__ "hi"
- #define __INT_FAST16_MAX__ 32767
- #define __INT_FAST16_TYPE__ short
- #define __INT_FAST16_WIDTH__ 16
- #define __INT_FAST32_FMTd__ "d"
- #define __INT_FAST32_FMTi__ "i"
- #define __INT_FAST32_MAX__ 2147483647
- #define __INT_FAST32_TYPE__ int
- #define __INT_FAST32_WIDTH__ 32
- #define __INT_FAST64_FMTd__ "Ild"
- #define __INT_FAST64_FMTi__ "Ili"
- #define __INT_FAST64_MAX__ 9223372036854775807LL
- #define __INT_FAST64_TYPE__ long long int
- #define __INT_FAST64_WIDTH__ 64
- #define __INT_FAST8_FMTd__ "hhd"
- #define __INT_FAST8_FMTi__ "hhi"
- #define __INT_FAST8_MAX__ 127
- #define __INT_FAST8_TYPE__ signed char
- #define __INT_FAST8_WIDTH__ 8
- #define __INT_LEAST16_FMTd__ "hd"
- #define __INT_LEAST16_FMTi__ "hi"
- #define __INT_LEAST16_MAX__ 32767
- #define __INT_LEAST16_TYPE__ short
- #define __INT_LEAST16_WIDTH__ 16
- #define __INT_LEAST32_FMTd__ "d"
- #define __INT_LEAST32_FMTi__ "i"
- #define __INT_LEAST32_MAX__ 2147483647
- #define __INT_LEAST32_TYPE__ int
- #define __INT_LEAST32_WIDTH__ 32
- #define __INT_LEAST64_FMTd__ "IId"
- #define __INT_LEAST64_FMTi__ "Ili"
- #define __INT_LEAST64_MAX__ 9223372036854775807LL
- #define __INT_LEAST64_TYPE__ long long int
- #define __INT_LEAST64_WIDTH__ 64
- #define __INT_LEAST8_FMTd__ "hhd"
- #define __INT_LEAST8_FMTi__ "hhi"
- #define __INT_LEAST8_MAX__ 127
- #define __INT_LEAST8_TYPE__ signed char

- #define __INT_LEAST8_WIDTH__ 8
- #define __INT_MAX__ 2147483647
- #define __INT_WIDTH__ 32
- #define _LDBL_DECIMAL_DIG__ 17
- #define __LDBL_DENORM_MIN__ 4.9406564584124654e-324L
- #define __LDBL_DIG__ 15
- #define __LDBL_EPSILON__ 2.2204460492503131e-16L
- #define __LDBL_HAS_DENORM__ 1
- #define __LDBL_HAS_INFINITY__ 1
- #define __LDBL_HAS_QUIET_NAN__ 1
- #define __LDBL_MANT_DIG__ 53
- #define __LDBL_MAX_10_EXP__ 308
- #define __LDBL_MAX_EXP__ 1024
- #define _LDBL_MAX_ 1.7976931348623157e+308L
- #define __LDBL_MIN_10_EXP__ (-307)
- #define __LDBL_MIN_EXP__ (-1021)
- #define __LDBL_MIN__ 2.2250738585072014e-308L
- #define __LDBL_NORM_MAX__ 1.7976931348623157e+308L
- #define __LITTLE_ENDIAN__ 1
- #define __LLONG_WIDTH__ 64
- #define __LONG_LONG_MAX__ 9223372036854775807LL
- #define __LONG_MAX__ 9223372036854775807L
- #define __LONG_WIDTH__ 64
- #define __LP64__ 1
- #define __MACH__ 1
- #define __MEMORY_SCOPE_DEVICE 1
- #define __MEMORY_SCOPE_SINGLE 4
- #define __MEMORY_SCOPE_SYSTEM 0
- #define __MEMORY_SCOPE_WRKGRP 2
- #define __MEMORY_SCOPE_WVFRNT 3
- #define __NO_INLINE__ 1
- #define __NO_MATH_ERRNO__ 1
- #define __OBJC_BOOL_IS_BOOL 1
- #define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3
- #define __OPENCL_MEMORY_SCOPE_DEVICE 2
- #define __OPENCL_MEMORY_SCOPE_SUB_GROUP 4
- #define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1
- #define __OPENCL_MEMORY_SCOPE_WORK_ITEM 0
- #define __ORDER_BIG_ENDIAN__ 4321
- #define _ORDER_LITTLE_ENDIAN__ 1234
- #define __ORDER_PDP_ENDIAN__ 3412
- #define __PIC__ 2
- #define __POINTER_WIDTH__ 64
- #define __PRAGMA_REDEFINE_EXTNAME 1
- #define __PTRDIFF_FMTd__ "ld"
- #define __PTRDIFF_FMTi__ "li"
- #define __PTRDIFF_MAX__ 9223372036854775807L
- #define __PTRDIFF_TYPE__ long int
- #define __PTRDIFF_WIDTH__ 64
- #define __REGISTER_PREFIX__
- #define __SCHAR_MAX__ 127
- #define __SHRT_MAX__ 32767
- #define __SHRT_WIDTH__ 16
- #define __SIG_ATOMIC_MAX__ 2147483647
- #define __SIG_ATOMIC_WIDTH__ 32

 #define __SIZEOF_DOUBLE__ 8 #define __SIZEOF_FLOAT__ 4 #define __SIZEOF_INT128__ 16 • #define __SIZEOF_INT__ 4 #define __SIZEOF_LONG_DOUBLE__ 8 • #define __SIZEOF_LONG_LONG__ 8 #define __SIZEOF_LONG__ 8 • #define __SIZEOF_POINTER__ 8 #define __SIZEOF_PTRDIFF_T__ 8 • #define __SIZEOF_SHORT__ 2 #define __SIZEOF_SIZE_T__ 8 #define __SIZEOF_WCHAR_T__ 4 • #define __SIZEOF_WINT_T__ 4 #define __SIZE_FMTX__ "IX" #define __SIZE_FMTo__ "lo" • #define __SIZE_FMTu__ "lu" • #define __SIZE_FMTx__ "lx" #define __SIZE_MAX__ 18446744073709551615UL #define __SIZE_TYPE__ long unsigned int #define __SIZE_WIDTH__ 64 #define __SSP__ 1 • #define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL #define __STDCPP_THREADS__ 1 #define __STDC_EMBED_EMPTY__ 2 #define __STDC_EMBED_FOUND__ 1 • #define __STDC_EMBED_NOT_FOUND__ 0 • #define __STDC_HOSTED__ 1 #define __STDC_NO_THREADS__ 1 #define __STDC_UTF_16__ 1 #define __STDC_UTF_32__ 1 • #define __STDC__ 1 #define __UINT16_C_SUFFIX__ #define __UINT16_FMTX__ "hX" • #define __UINT16_FMTo__ "ho" #define __UINT16_FMTu__ "hu" #define __UINT16_FMTx__ "hx" #define __UINT16_MAX__ 65535 #define __UINT16_TYPE__ unsigned short #define __UINT32_C_SUFFIX__ U #define __UINT32_FMTX__ "X" #define __UINT32_FMTo__ "o" #define __UINT32_FMTu__ "u" #define __UINT32_FMTx__ "x" #define __UINT32_MAX__ 4294967295U #define __UINT32_TYPE__ unsigned int #define __UINT64_C_SUFFIX__ ULL #define __UINT64_FMTX__ "IIX" #define __UINT64_FMTo__ "Ilo" #define __UINT64_FMTu__ "Ilu" #define __UINT64_FMTx__ "IIx" #define __UINT64_MAX__ 18446744073709551615ULL #define __UINT64_TYPE__ long long unsigned int

#define __UINT8_C_SUFFIX__
#define __UINT8_FMTX__ "hhX"
#define __UINT8_FMTo__ "hho"

- #define __UINT8_FMTu__ "hhu"
- #define __UINT8_FMTx__ "hhx"
- #define __UINT8_MAX__ 255
- #define __UINT8_TYPE__ unsigned char
- #define __UINTMAX_C_SUFFIX__ UL
- #define __UINTMAX_FMTX__ "IX"
- #define __UINTMAX_FMTo__ "lo"
- #define __UINTMAX_FMTu__ "lu"
- #define __UINTMAX_FMTx__ "lx"
- #define __UINTMAX_MAX__ 18446744073709551615UL
- #define __UINTMAX_TYPE__ long unsigned int
- #define __UINTMAX_WIDTH__ 64
- #define __UINTPTR_FMTX__ "IX"
- #define __UINTPTR_FMTo__ "lo"
- #define __UINTPTR_FMTu__ "lu"
- #define __UINTPTR_FMTx__ "lx"
- #define __UINTPTR_MAX__ 18446744073709551615UL
- #define __UINTPTR_TYPE__ long unsigned int
- #define __UINTPTR_WIDTH__ 64
- #define __UINT_FAST16_FMTX__ "hX"
- #define __UINT_FAST16_FMTo__ "ho"
- #define __UINT_FAST16_FMTu__ "hu"
- #define __UINT_FAST16_FMTx__ "hx"
- #define __UINT_FAST16_MAX__ 65535
- #define __UINT_FAST16_TYPE__ unsigned short
- #define __UINT_FAST32_FMTX__ "X"
- #define __UINT_FAST32_FMTo__ "o"
- #define __UINT_FAST32_FMTu__ "u"
- #define __UINT_FAST32_FMTx__ "x"
- #define __UINT_FAST32_MAX__ 4294967295U
- #define __UINT_FAST32_TYPE__ unsigned int
- #define __UINT_FAST64_FMTX__ "IIX"
- #define __UINT_FAST64_FMTo__ "Ilo"
- #define __UINT_FAST64_FMTu__ "Ilu"
- #define __UINT_FAST64_FMTx__ "Ilx"
- #define __UINT_FAST64_MAX__ 18446744073709551615ULL
- #define __UINT_FAST64_TYPE__ long long unsigned int
- #define __UINT_FAST8_FMTX__ "hhX"
- #define __UINT_FAST8_FMTo__ "hho"
- #define __UINT_FAST8_FMTu__ "hhu"
- #define __UINT_FAST8_FMTx__ "hhx"
- #define __UINT_FAST8_MAX__ 255
- #define __UINT_FAST8_TYPE__ unsigned char
- #define __UINT_LEAST16_FMTX__ "hX"
- #define __UINT_LEAST16_FMTo__ "ho"
- #define __UINT_LEAST16_FMTu__ "hu"
- #define __UINT_LEAST16_FMTx__ "hx"
- #define __UINT_LEAST16_MAX__ 65535
- #define __UINT_LEAST16_TYPE__ unsigned short
- #define __UINT_LEAST32_FMTX__ "X"
- #define __UINT_LEAST32_FMTo__ "o"
- #define __UINT_LEAST32_FMTu__ "u"
- #define __UINT_LEAST32_FMTx__ "x"
- #define __UINT_LEAST32_MAX__ 4294967295U
- #define __UINT_LEAST32_TYPE__ unsigned int

 #define __UINT_LEAST64_FMTX__ "IIX" #define __UINT_LEAST64_FMTo__ "Ilo" #define __UINT_LEAST64_FMTu__ "Ilu" • #define __UINT_LEAST64_FMTx__ "Ilx" #define __UINT_LEAST64_MAX__ 18446744073709551615ULL #define __UINT_LEAST64_TYPE__ long long unsigned int #define __UINT_LEAST8_FMTX__ "hhX" #define __UINT_LEAST8_FMTo__ "hho" • #define __UINT_LEAST8_FMTu__ "hhu" #define __UINT_LEAST8_FMTx__ "hhx" #define __UINT_LEAST8_MAX__ 255 #define __UINT_LEAST8_TYPE__ unsigned char #define __USER_LABEL_PREFIX__ _ #define __VERSION__ "Apple LLVM 17.0.0 (clang-1700.0.13.3)" #define __WCHAR_MAX__ 2147483647 • #define __WCHAR_TYPE__ int #define __WCHAR_WIDTH__ 32 #define __WINT_MAX__ 2147483647 #define __WINT_TYPE__ int #define __WINT_WIDTH__ 32 • #define __aarch64__ 1 #define __apple_build_version__ 17000013 #define __arm64 1 • #define __arm64__ 1 #define __block __attribute__((__blocks__(byref))) #define __clang__ 1 #define __clang_literal_encoding__ "UTF-8" #define __clang_major__ 17 • #define __clang_minor__ 0 #define __clang_patchlevel__ 0 • #define __clang_version__ "17.0.0 (clang-1700.0.13.3)" #define __clang_wide_literal_encoding__ "UTF-32" • #define __cplusplus 201703L #define __cpp_aggregate_bases 201603L #define __cpp_aggregate_nsdmi 201304L #define __cpp_alias_templates 200704L • #define __cpp_aligned_new 201606L #define __cpp_attributes 200809L #define __cpp_binary_literals 201304L • #define __cpp_capture_star_this 201603L #define __cpp_constexpr 201603L #define __cpp_constexpr_in_decltype 201711L #define __cpp_decltype 200707L #define __cpp_decltype_auto 201304L • #define __cpp_deduction_guides 201703L #define __cpp_delegating_constructors 200604L #define __cpp_deleted_function 202403L • #define __cpp_digit_separators 201309L #define __cpp_enumerator_attributes 201411L #define __cpp_exceptions 199711L #define __cpp_fold_expressions 201603L #define __cpp_generic_lambdas 201304L #define __cpp_guaranteed_copy_elision 201606L

#define __cpp_hex_float 201603L#define __cpp_if_constexpr 201606L

- #define __cpp_impl_destroying_delete 201806L
- #define __cpp_inheriting_constructors 201511L
- #define __cpp_init_captures 201304L
- #define __cpp_initializer_lists 200806L
- #define __cpp_inline_variables 201606L
- #define __cpp_lambdas 200907L
- #define __cpp_named_character_escapes 202207L
- #define __cpp_namespace_attributes 201411L
- #define __cpp_nested_namespace_definitions 201411L
- #define __cpp_noexcept_function_type 201510L
- #define __cpp_nontype_template_args 201411L
- #define __cpp_nontype_template_parameter_auto 201606L
- #define __cpp_nsdmi 200809L
- #define __cpp_pack_indexing 202311L
- #define __cpp_placeholder_variables 202306L
- #define __cpp_range_based_for 201603L
- #define __cpp_raw_strings 200710L
- #define __cpp_ref_qualifiers 200710L
- #define __cpp_return_type_deduction 201304L
- #define __cpp_rtti 199711L
- #define __cpp_rvalue_references 200610L
- #define __cpp_static_assert 201411L
- #define __cpp_static_call_operator 202207L
- #define __cpp_structured_bindings 202403L
- #define __cpp_template_auto 201606L
- #define __cpp_template_template_args 201611L
- #define __cpp_threadsafe_static_init 200806L
- #define __cpp_unicode_characters 200704L
- #define __cpp_unicode_literals 200710L
- #define __cpp_user_defined_literals 200809L
- #define __cpp_variable_templates 201304L
- #define __cpp_variadic_templates 200704L
- #define __cpp_variadic_using 201611L
- #define __llvm__ 1
- #define __nonnull _Nonnull
- #define __null_unspecified _Null_unspecified
- #define __nullable _Nullable
- #define __pic__ 2
- #define __private_extern__ extern
- #define __strong
- #define __unsafe_unretained
- #define __weak __attribute__((objc_gc(weak)))

9.47.1 宏定义说明

9.47.1.1 __aarch64__

#define __aarch64__ 1

9.47.1.2 __AARCH64_CMODEL_SMALL__

#define __AARCH64_CMODEL_SMALL__ 1

9.47.1.3 __AARCH64_SIMD__ #define __AARCH64_SIMD__ 1 9.47.1.4 __AARCH64EL__ #define __AARCH64EL__ 1 9.47.1.5 __APPLE__ #define __APPLE__ 1 9.47.1.6 __apple_build_version__ #define __apple_build_version__ 17000013 9.47.1.7 __APPLE_CC__ #define __APPLE_CC__ 6000 9.47.1.8 __arm64 #define __arm64 1 9.47.1.9 __arm64__ #define __arm64__ 1 9.47.1.10 __ARM64_ARCH_8_ #define __ARM64_ARCH_8__ 1

9.47.1.11 __ARM_64BIT_STATE

#define __ARM_64BIT_STATE 1

9.47.1.12 __ARM_ACLE

#define __ARM_ACLE 200

9.47.1.13 __ARM_ALIGN_MAX_STACK_PWR

#define __ARM_ALIGN_MAX_STACK_PWR 4

9.47.1.14 __ARM_ARCH

#define __ARM_ARCH 8

9.47.1.15 __ARM_ARCH_8_3__

#define __ARM_ARCH_8_3__ 1

9.47.1.16 __ARM_ARCH_8_4__

#define __ARM_ARCH_8_4__ 1

9.47.1.17 __ARM_ARCH_8_5__

#define __ARM_ARCH_8_5__ 1

9.47.1.18 __ARM_ARCH_ISA_A64

#define __ARM_ARCH_ISA_A64 1

9.47.1.19 __ARM_ARCH_PROFILE

#define __ARM_ARCH_PROFILE 'A'

9.47.1.20 __ARM_FEATURE_AES

#define __ARM_FEATURE_AES 1

9.47.1.21 __ARM_FEATURE_ATOMICS

#define __ARM_FEATURE_ATOMICS 1

9.47.1.22 __ARM_FEATURE_BTI

#define __ARM_FEATURE_BTI 1

9.47.1.23 __ARM_FEATURE_CLZ

#define __ARM_FEATURE_CLZ 1

9.47.1.24 __ARM_FEATURE_COMPLEX

#define __ARM_FEATURE_COMPLEX 1

9.47.1.25 __ARM_FEATURE_CRC32

#define __ARM_FEATURE_CRC32 1

9.47.1.26 __ARM_FEATURE_CRYPTO

#define __ARM_FEATURE_CRYPTO 1

9.47.1.27 __ARM_FEATURE_DIRECTED_ROUNDING

#define __ARM_FEATURE_DIRECTED_ROUNDING 1

9.47.1.28 __ARM_FEATURE_DIV

#define __ARM_FEATURE_DIV 1

9.47.1.29 __ARM_FEATURE_DOTPROD

#define __ARM_FEATURE_DOTPROD 1

9.47.1.30 __ARM_FEATURE_FMA

#define __ARM_FEATURE_FMA 1

9.47.1.31 __ARM_FEATURE_FP16_FML

#define __ARM_FEATURE_FP16_FML 1

9.47.1.32 __ARM_FEATURE_FP16_SCALAR_ARITHMETIC

#define __ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1

9.47.1.33 __ARM_FEATURE_FP16_VECTOR_ARITHMETIC

#define __ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1

9.47.1.34 __ARM_FEATURE_FRINT

#define __ARM_FEATURE_FRINT 1

9.47.1.35 __ARM_FEATURE_IDIV

#define __ARM_FEATURE_IDIV 1

9.47.1.36 __ARM_FEATURE_JCVT

#define __ARM_FEATURE_JCVT 1

9.47.1.37 __ARM_FEATURE_LDREX

#define __ARM_FEATURE_LDREX 0xF

9.47.1.38 __ARM_FEATURE_NUMERIC_MAXMIN

#define __ARM_FEATURE_NUMERIC_MAXMIN 1

9.47.1.39 __ARM_FEATURE_PAUTH

#define __ARM_FEATURE_PAUTH 1

9.47.1.40 __ARM_FEATURE_QRDMX

#define __ARM_FEATURE_QRDMX 1

9.47.1.41 __ARM_FEATURE_RCPC

#define __ARM_FEATURE_RCPC 1

9.47.1.42 __ARM_FEATURE_SHA2

#define __ARM_FEATURE_SHA2 1

9.47.1.43 __ARM_FEATURE_SHA3

#define __ARM_FEATURE_SHA3 1

9.47.1.44 __ARM_FEATURE_SHA512

#define __ARM_FEATURE_SHA512 1

9.47.1.45 __ARM_FEATURE_UNALIGNED

#define __ARM_FEATURE_UNALIGNED 1

9.47.1.46 __ARM_FP

#define __ARM_FP 0xE

9.47.1.47 __ARM_FP16_ARGS

#define __ARM_FP16_ARGS 1

9.47.1.48 __ARM_FP16_FORMAT_IEEE

#define __ARM_FP16_FORMAT_IEEE 1

9.47.1.49 __ARM_NEON

#define __ARM_NEON 1

9.47.1.50 __ARM_NEON__

#define __ARM_NEON__ 1

9.47.1.51 __ARM_NEON_FP

#define __ARM_NEON_FP 0xE

9.47.1.52 __ARM_PCS_AAPCS64

#define __ARM_PCS_AAPCS64 1

9.47.1.53 __ARM_SIZEOF_MINIMAL_ENUM

#define __ARM_SIZEOF_MINIMAL_ENUM 4

9.47.1.54 __ARM_SIZEOF_WCHAR_T

#define __ARM_SIZEOF_WCHAR_T 4

9.47.1.55 __ARM_STATE_ZA

#define __ARM_STATE_ZA 1

9.47.1.56 __ARM_STATE_ZT0

#define __ARM_STATE_ZT0 1

9.47.1.57 __ATOMIC_ACQ_REL

#define __ATOMIC_ACQ_REL 4

9.47.1.58 __ATOMIC_ACQUIRE

#define __ATOMIC_ACQUIRE 2

9.47.1.59 __ATOMIC_CONSUME

#define __ATOMIC_CONSUME 1

9.47.1.60 __ATOMIC_RELAXED

#define __ATOMIC_RELAXED 0

9.47.1.61 __ATOMIC_RELEASE

#define __ATOMIC_RELEASE 3

9.47.1.62 __ATOMIC_SEQ_CST

#define __ATOMIC_SEQ_CST 5

9.47.1.63 __BIGGEST_ALIGNMENT__ #define __BIGGEST_ALIGNMENT__ 8 9.47.1.64 __BITINT_MAXWIDTH__ #define __BITINT_MAXWIDTH__ 128 9.47.1.65 __block #define __block __attribute__((__blocks__(byref))) 9.47.1.66 __BLOCKS__ #define __BLOCKS__ 1 9.47.1.67 __BOOL_WIDTH__ #define __BOOL_WIDTH__ 8 9.47.1.68 __BYTE_ORDER__ #define __BYTE_ORDER__ __ORDER_LITTLE_ENDIAN__ 9.47.1.69 __CHAR16_TYPE__ #define __CHAR16_TYPE__ unsigned short 9.47.1.70 __CHAR32_TYPE__ #define __CHAR32_TYPE_ unsigned int 9.47.1.71 __CHAR_BIT__ #define __CHAR_BIT__ 8 9.47.1.72 __clang__

#define __clang__ 1

9.47.1.73 __CLANG_ATOMIC_BOOL_LOCK_FREE

#define __CLANG_ATOMIC_BOOL_LOCK_FREE 2

9.47.1.74 __CLANG_ATOMIC_CHAR16_T_LOCK_FREE

#define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2

9.47.1.75 __CLANG_ATOMIC_CHAR32_T_LOCK_FREE

#define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2

9.47.1.76 __CLANG_ATOMIC_CHAR_LOCK_FREE

#define __CLANG_ATOMIC_CHAR_LOCK_FREE 2

9.47.1.77 __CLANG_ATOMIC_INT_LOCK_FREE

#define __CLANG_ATOMIC_INT_LOCK_FREE 2

9.47.1.78 __CLANG_ATOMIC_LLONG_LOCK_FREE

#define __CLANG_ATOMIC_LLONG_LOCK_FREE 2

9.47.1.79 __CLANG_ATOMIC_LONG_LOCK_FREE

#define __CLANG_ATOMIC_LONG_LOCK_FREE 2

9.47.1.80 __CLANG_ATOMIC_POINTER_LOCK_FREE

#define __CLANG_ATOMIC_POINTER_LOCK_FREE 2

9.47.1.81 __CLANG_ATOMIC_SHORT_LOCK_FREE

#define __CLANG_ATOMIC_SHORT_LOCK_FREE 2

9.47.1.82 __CLANG_ATOMIC_WCHAR_T_LOCK_FREE

#define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2

```
9.47.1.83 __clang_literal_encoding__
#define __clang_literal_encoding__ "UTF-8"
9.47.1.84 __clang_major__
#define __clang_major__ 17
9.47.1.85 __clang_minor__
#define __clang_minor__ 0
9.47.1.86 __clang_patchlevel__
#define __clang_patchlevel__ 0
9.47.1.87 __clang_version__
#define __clang_version__ "17.0.0 (clang-1700.0.13.3)"
9.47.1.88 __clang_wide_literal_encoding__
#define __clang_wide_literal_encoding__ "UTF-32"
9.47.1.89 __CONSTANT_CFSTRINGS__
#define __CONSTANT_CFSTRINGS__ 1
9.47.1.90 __cplusplus
#define _cplusplus 201703L
9.47.1.91 __cpp_aggregate_bases
#define _-cpp_aggregate_bases 201603L
```

9.47.1.92 __cpp_aggregate_nsdmi

#define __cpp_aggregate_nsdmi 201304L

9.47.1.93 __cpp_alias_templates

#define __cpp_alias_templates 200704L

9.47.1.94 __cpp_aligned_new

#define __cpp_aligned_new 201606L

9.47.1.95 __cpp_attributes

#define __cpp_attributes 200809L

9.47.1.96 __cpp_binary_literals

#define __cpp_binary_literals 201304L

9.47.1.97 __cpp_capture_star_this

#define __cpp_capture_star_this 201603L

9.47.1.98 __cpp_constexpr

#define __cpp_constexpr 201603L

9.47.1.99 __cpp_constexpr_in_decltype

#define __cpp_constexpr_in_decltype 201711L

9.47.1.100 __cpp_decitype

#define _cpp_decltype 200707L

9.47.1.101 __cpp_decltype_auto

#define __cpp_decltype_auto 201304L

9.47.1.102 __cpp_deduction_guides

#define __cpp_deduction_guides 201703L

9.47.1.103 __cpp_delegating_constructors

#define __cpp_delegating_constructors 200604L

9.47.1.104 __cpp_deleted_function

#define __cpp_deleted_function 202403L

9.47.1.105 __cpp_digit_separators

#define __cpp_digit_separators 201309L

9.47.1.106 __cpp_enumerator_attributes

#define __cpp_enumerator_attributes 201411L

9.47.1.107 _cpp_exceptions

#define __cpp_exceptions 199711L

9.47.1.108 __cpp_fold_expressions

#define __cpp_fold_expressions 201603L

9.47.1.109 __cpp_generic_lambdas

#define _cpp_generic_lambdas 201304L

9.47.1.110 __cpp_guaranteed_copy_elision

#define __cpp_guaranteed_copy_elision 201606L

9.47.1.111 __cpp_hex_float

#define __cpp_hex_float 201603L

9.47.1.112 __cpp_if_constexpr

#define __cpp_if_constexpr 201606L

9.47.1.113 __cpp_impl_destroying_delete

#define __cpp_impl_destroying_delete 201806L

9.47.1.114 __cpp_inheriting_constructors

#define __cpp_inheriting_constructors 201511L

9.47.1.115 __cpp_init_captures

#define __cpp_init_captures 201304L

9.47.1.116 __cpp_initializer_lists

#define __cpp_initializer_lists 200806L

9.47.1.117 __cpp_inline_variables

#define _cpp_inline_variables 201606L

9.47.1.118 __cpp_lambdas

#define _cpp_lambdas 200907L

9.47.1.119 __cpp_named_character_escapes

#define __cpp_named_character_escapes 202207L

9.47.1.120 __cpp_namespace_attributes

#define _cpp_namespace_attributes 201411L

9.47.1.121 __cpp_nested_namespace_definitions

#define __cpp_nested_namespace_definitions 201411L

9.47.1.122 __cpp_noexcept_function_type

#define _cpp_noexcept_function_type 201510L

9.47.1.123 __cpp_nontype_template_args

#define __cpp_nontype_template_args 201411L

9.47.1.124 __cpp_nontype_template_parameter_auto

#define __cpp_nontype_template_parameter_auto 201606L

9.47.1.125 __cpp_nsdmi

#define __cpp_nsdmi 200809L

9.47.1.126 __cpp_pack_indexing

#define __cpp_pack_indexing 202311L

9.47.1.127 __cpp_placeholder_variables

#define __cpp_placeholder_variables 202306L

9.47.1.128 __cpp_range_based_for

#define __cpp_range_based_for 201603L

9.47.1.129 __cpp_raw_strings

#define _cpp_raw_strings 200710L

9.47.1.130 __cpp_ref_qualifiers

#define __cpp_ref_qualifiers 200710L

9.47.1.131 __cpp_return_type_deduction

#define _-cpp_return_type_deduction 201304L

9.47.1.132 __cpp_rtti

#define __cpp_rtti 199711L

9.47.1.133 __cpp_rvalue_references

#define _cpp_rvalue_references 200610L

9.47.1.134 __cpp_static_assert

#define __cpp_static_assert 201411L

9.47.1.135 __cpp_static_call_operator

#define __cpp_static_call_operator 202207L

9.47.1.136 __cpp_structured_bindings

#define __cpp_structured_bindings 202403L

9.47.1.137 __cpp_template_auto

#define __cpp_template_auto 201606L

9.47.1.138 __cpp_template_template_args

#define _cpp_template_template_args 201611L

9.47.1.139 __cpp_threadsafe_static_init

#define __cpp_threadsafe_static_init 200806L

9.47.1.140 __cpp_unicode_characters

#define __cpp_unicode_characters 200704L

9.47.1.141 __cpp_unicode_literals

#define __cpp_unicode_literals 200710L

9.47.1.142 __cpp_user_defined_literals

#define __cpp_user_defined_literals 200809L

9.47.1.143 __cpp_variable_templates

#define __cpp_variable_templates 201304L

9.47.1.144 __cpp_variadic_templates

#define __cpp_variadic_templates 200704L

9.47.1.145 __cpp_variadic_using

#define __cpp_variadic_using 201611L

9.47.1.146 __DBL_DECIMAL_DIG__

#define __DBL_DECIMAL_DIG__ 17

9.47.1.147 __DBL_DENORM_MIN__

#define __DBL_DENORM_MIN__ 4.9406564584124654e-324

9.47.1.148 __DBL_DIG__

#define __DBL_DIG__ 15

9.47.1.149 __DBL_EPSILON__

#define __DBL_EPSILON__ 2.2204460492503131e-16

9.47.1.150 __DBL_HAS_DENORM__

#define __DBL_HAS_DENORM__ 1

9.47.1.151 __DBL_HAS_INFINITY__

#define __DBL_HAS_INFINITY__ 1

9.47.1.152 __DBL_HAS_QUIET_NAN__

#define __DBL_HAS_QUIET_NAN__ 1

9.47.1.153 __DBL_MANT_DIG__ #define __DBL_MANT_DIG__ 53 9.47.1.154 __DBL_MAX_10_EXP__ #define __DBL_MAX_10_EXP__ 308 9.47.1.155 __DBL_MAX__ #define __DBL_MAX__ 1.7976931348623157e+308 9.47.1.156 __DBL_MAX_EXP__ #define __DBL_MAX_EXP__ 1024 9.47.1.157 __DBL_MIN_10_EXP__ #define __DBL_MIN_10_EXP__ (-307) 9.47.1.158 __DBL_MIN__ #define __DBL_MIN__ 2.2250738585072014e-308 9.47.1.159 __DBL_MIN_EXP__ #define __DBL_MIN_EXP__ (-1021) 9.47.1.160 __DBL_NORM_MAX__ #define __DBL_NORM_MAX__ 1.7976931348623157e+308

9.47.1.161 __DECIMAL_DIG__

#define __DECIMAL_DIG__ __LDBL_DECIMAL_DIG__

9.47.1.162 __DEPRECATED

#define __DEPRECATED 1

9.47.1.163 __DYNAMIC__

#define __DYNAMIC__ 1

9.47.1.164 __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__

#define __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__ 150000

9.47.1.165 __ENVIRONMENT_OS_VERSION_MIN_REQUIRED__

#define _ENVIRONMENT_OS_VERSION_MIN_REQUIRED__ 150000

9.47.1.166 __EXCEPTIONS

#define __EXCEPTIONS 1

9.47.1.167 __FINITE_MATH_ONLY__

#define __FINITE_MATH_ONLY__ 0

9.47.1.168 __FLT16_DECIMAL_DIG__

#define __FLT16_DECIMAL_DIG__ 5

9.47.1.169 __FLT16_DENORM_MIN__

#define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16

9.47.1.170 __FLT16_DIG__

#define __FLT16_DIG__ 3

9.47.1.171 __FLT16_EPSILON__

#define __FLT16_EPSILON__ 9.765625e-4F16

9.47.1.172 __FLT16_HAS_DENORM__

#define __FLT16_HAS_DENORM__ 1

9.47.1.173 __FLT16_HAS_INFINITY__ #define __FLT16_HAS_INFINITY__ 1 9.47.1.174 __FLT16_HAS_QUIET_NAN__ #define __FLT16_HAS_QUIET_NAN__ 1 9.47.1.175 __FLT16_MANT_DIG__ #define __FLT16_MANT_DIG__ 11 9.47.1.176 __FLT16_MAX_10_EXP__ #define __FLT16_MAX_10_EXP__ 4 9.47.1.177 __FLT16_MAX__ #define __FLT16_MAX__ 6.5504e+4F16 9.47.1.178 __FLT16_MAX_EXP__ #define __FLT16_MAX_EXP__ 16 9.47.1.179 __FLT16_MIN_10_EXP__ #define __FLT16_MIN_10_EXP__ (-4) 9.47.1.180 __FLT16_MIN__ #define __FLT16_MIN__ 6.103515625e-5F16 9.47.1.181 __FLT16_MIN_EXP__ #define __FLT16_MIN_EXP__ (-13)

9.47.1.182 __FLT16_NORM_MAX__

#define __FLT16_NORM_MAX__ 6.5504e+4F16

9.47.1.183 __FLT_DECIMAL_DIG__

#define __FLT_DECIMAL_DIG__ 9

9.47.1.184 __FLT_DENORM_MIN__

#define __FLT_DENORM_MIN__ 1.40129846e-45F

9.47.1.185 __FLT_DIG__

#define __FLT_DIG__ 6

9.47.1.186 __FLT_EPSILON__

#define __FLT_EPSILON__ 1.19209290e-7F

9.47.1.187 __FLT_HAS_DENORM__

#define __FLT_HAS_DENORM__ 1

9.47.1.188 __FLT_HAS_INFINITY__

#define __FLT_HAS_INFINITY__ 1

9.47.1.189 __FLT_HAS_QUIET_NAN__

#define __FLT_HAS_QUIET_NAN__ 1

9.47.1.190 __FLT_MANT_DIG__

#define __FLT_MANT_DIG__ 24

9.47.1.191 __FLT_MAX_10_EXP__

#define __FLT_MAX_10_EXP__ 38

9.47.1.192 __FLT_MAX__

#define __FLT_MAX__ 3.40282347e+38F

9.47.1.193 __FLT_MAX_EXP__ #define __FLT_MAX_EXP__ 128 9.47.1.194 __FLT_MIN_10_EXP__ #define __FLT_MIN_10_EXP__ (-37) 9.47.1.195 __FLT_MIN__ #define __FLT_MIN__ 1.17549435e-38F 9.47.1.196 __FLT_MIN_EXP__ #define __FLT_MIN_EXP__ (-125) 9.47.1.197 __FLT_NORM_MAX__ #define __FLT_NORM_MAX__ 3.40282347e+38F 9.47.1.198 __FLT_RADIX__ #define __FLT_RADIX__ 2 9.47.1.199 __FP_FAST_FMA #define __FP_FAST_FMA 1 9.47.1.200 __FP_FAST_FMAF #define __FP_FAST_FMAF 1 9.47.1.201 __FPCLASS_NEGINF #define __FPCLASS_NEGINF 0x0004 9.47.1.202 __FPCLASS_NEGNORMAL

#define __FPCLASS_NEGNORMAL 0x0008

9.47.1.203 __FPCLASS_NEGSUBNORMAL

#define __FPCLASS_NEGSUBNORMAL 0x0010

9.47.1.204 __FPCLASS_NEGZERO

#define __FPCLASS_NEGZERO 0x0020

9.47.1.205 __FPCLASS_POSINF

#define __FPCLASS_POSINF 0x0200

9.47.1.206 __FPCLASS_POSNORMAL

#define __FPCLASS_POSNORMAL 0x0100

9.47.1.207 __FPCLASS_POSSUBNORMAL

#define __FPCLASS_POSSUBNORMAL 0x0080

9.47.1.208 __FPCLASS_POSZERO

#define __FPCLASS_POSZERO 0x0040

9.47.1.209 __FPCLASS_QNAN

#define __FPCLASS_QNAN 0x0002

9.47.1.210 __FPCLASS_SNAN

#define __FPCLASS_SNAN 0x0001

9.47.1.211 __GCC_ASM_FLAG_OUTPUTS__

#define __GCC_ASM_FLAG_OUTPUTS__ 1

9.47.1.212 __GCC_ATOMIC_BOOL_LOCK_FREE

#define __GCC_ATOMIC_BOOL_LOCK_FREE 2

9.47.1.213 __GCC_ATOMIC_CHAR16_T_LOCK_FREE

#define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2

9.47.1.214 __GCC_ATOMIC_CHAR32_T_LOCK_FREE

#define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2

9.47.1.215 __GCC_ATOMIC_CHAR_LOCK_FREE

#define __GCC_ATOMIC_CHAR_LOCK_FREE 2

9.47.1.216 __GCC_ATOMIC_INT_LOCK_FREE

#define __GCC_ATOMIC_INT_LOCK_FREE 2

9.47.1.217 __GCC_ATOMIC_LLONG_LOCK_FREE

#define __GCC_ATOMIC_LLONG_LOCK_FREE 2

9.47.1.218 __GCC_ATOMIC_LONG_LOCK_FREE

#define __GCC_ATOMIC_LONG_LOCK_FREE 2

9.47.1.219 __GCC_ATOMIC_POINTER_LOCK_FREE

#define __GCC_ATOMIC_POINTER_LOCK_FREE 2

9.47.1.220 __GCC_ATOMIC_SHORT_LOCK_FREE

#define __GCC_ATOMIC_SHORT_LOCK_FREE 2

9.47.1.221 __GCC_ATOMIC_TEST_AND_SET_TRUEVAL

#define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1

9.47.1.222 __GCC_ATOMIC_WCHAR_T_LOCK_FREE

#define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2

9.47.1.223 __GCC_CONSTRUCTIVE_SIZE

#define __GCC_CONSTRUCTIVE_SIZE 64

9.47.1.224 __GCC_DESTRUCTIVE_SIZE

#define __GCC_DESTRUCTIVE_SIZE 64

9.47.1.225 __GCC_HAVE_DWARF2_CFI_ASM

#define __GCC_HAVE_DWARF2_CFI_ASM 1

9.47.1.226 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1

9.47.1.227 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1

9.47.1.228 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1

9.47.1.229 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1

9.47.1.230 __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8

#define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1

9.47.1.231 __GLIBCXX_BITSIZE_INT_N_0

#define __GLIBCXX_BITSIZE_INT_N_0 128

9.47.1.232 __GLIBCXX_TYPE_INT_N_0

#define __GLIBCXX_TYPE_INT_N_0 __int128

9.47.1.233 __GNUC__ #define __GNUC__ 4 9.47.1.234 __GNUC_GNU_INLINE__ #define __GNUC_GNU_INLINE__ 1 9.47.1.235 __GNUC_MINOR__ #define __GNUC_MINOR__ 2 9.47.1.236 __GNUC_PATCHLEVEL__ #define __GNUC_PATCHLEVEL__ 1 9.47.1.237 __GNUG__ #define __GNUG__ 4 9.47.1.238 __GXX_ABI_VERSION #define __GXX_ABI_VERSION 1002 9.47.1.239 __GXX_EXPERIMENTAL_CXX0X__ #define __GXX_EXPERIMENTAL_CXX0X__ 1 9.47.1.240 __GXX_RTTI #define __GXX_RTTI 1 9.47.1.241 __GXX_WEAK__ #define __GXX_WEAK__ 1 9.47.1.242 __HAVE_FUNCTION_MULTI_VERSIONING

#define __HAVE_FUNCTION_MULTI_VERSIONING 1

9.47.1.243 __INT16_C_SUFFIX__

#define __INT16_C_SUFFIX__

9.47.1.244 __INT16_FMTd__

#define __INT16_FMTd__ "hd"

9.47.1.245 __INT16_FMTi__

#define __INT16_FMTi__ "hi"

9.47.1.246 __INT16_MAX__

#define __INT16_MAX__ 32767

9.47.1.247 __INT16_TYPE__

#define __INT16_TYPE__ short

9.47.1.248 __INT32_C_SUFFIX__

#define __INT32_C_SUFFIX__

9.47.1.249 __INT32_FMTd__

#define __INT32_FMTd__ "d"

9.47.1.250 __INT32_FMTi__

#define __INT32_FMTi__ "i"

9.47.1.251 __INT32_MAX__

#define __INT32_MAX__ 2147483647

9.47.1.252 __INT32_TYPE__

#define __INT32_TYPE__ int

9.47.1.253 __INT64_C_SUFFIX__ #define __INT64_C_SUFFIX__ LL 9.47.1.254 __INT64_FMTd__ #define __INT64_FMTd__ "lld" 9.47.1.255 __INT64_FMTi__ #define __INT64_FMTi__ "lli" 9.47.1.256 __INT64_MAX__ #define __INT64_MAX__ 9223372036854775807LL 9.47.1.257 __INT64_TYPE__ #define __INT64_TYPE__ long long int 9.47.1.258 __INT8_C_SUFFIX__ #define __INT8_C_SUFFIX__ 9.47.1.259 __INT8_FMTd__ #define __INT8_FMTd__ "hhd" 9.47.1.260 __INT8_FMTi__ #define __INT8_FMTi__ "hhi" 9.47.1.261 __INT8_MAX__ #define __INT8_MAX__ 127 9.47.1.262 __INT8_TYPE__

#define __INT8_TYPE__ signed char

9.47.1.263 __INT_FAST16_FMTd__ #define __INT_FAST16_FMTd__ "hd" 9.47.1.264 __INT_FAST16_FMTi__ #define __INT_FAST16_FMTi__ "hi" 9.47.1.265 __INT_FAST16_MAX__ #define __INT_FAST16_MAX__ 32767 9.47.1.266 __INT_FAST16_TYPE__ #define __INT_FAST16_TYPE__ short 9.47.1.267 __INT_FAST16_WIDTH__ #define __INT_FAST16_WIDTH__ 16 9.47.1.268 __INT_FAST32_FMTd__ #define __INT_FAST32_FMTd__ "d" 9.47.1.269 __INT_FAST32_FMTi__ #define __INT_FAST32_FMTi__ "i" 9.47.1.270 __INT_FAST32_MAX__ #define __INT_FAST32_MAX__ 2147483647 9.47.1.271 __INT_FAST32_TYPE__

#define __INT_FAST32_TYPE__ int

9.47.1.272 __INT_FAST32_WIDTH__

#define __INT_FAST32_WIDTH__ 32

9.47.1.273 __INT_FAST64_FMTd__ #define __INT_FAST64_FMTd__ "lld" 9.47.1.274 __INT_FAST64_FMTi__ #define __INT_FAST64_FMTi__ "lli" 9.47.1.275 __INT_FAST64_MAX__ #define __INT_FAST64_MAX__ 9223372036854775807LL 9.47.1.276 __INT_FAST64_TYPE__ #define __INT_FAST64_TYPE__ long long int 9.47.1.277 __INT_FAST64_WIDTH__ #define __INT_FAST64_WIDTH__ 64 9.47.1.278 __INT_FAST8_FMTd__ #define __INT_FAST8_FMTd__ "hhd" 9.47.1.279 __INT_FAST8_FMTi__ #define __INT_FAST8_FMTi__ "hhi" 9.47.1.280 __INT_FAST8_MAX__ #define __INT_FAST8_MAX__ 127 9.47.1.281 __INT_FAST8_TYPE__ #define __INT_FAST8_TYPE__ signed char 9.47.1.282 __INT_FAST8_WIDTH__

#define __INT_FAST8_WIDTH__ 8

9.47.1.283 __INT_LEAST16_FMTd__ #define __INT_LEAST16_FMTd__ "hd" 9.47.1.284 __INT_LEAST16_FMTi__ #define __INT_LEAST16_FMTi__ "hi" 9.47.1.285 __INT_LEAST16_MAX__ #define __INT_LEAST16_MAX__ 32767 9.47.1.286 __INT_LEAST16_TYPE__ #define __INT_LEAST16_TYPE__ short 9.47.1.287 __INT_LEAST16_WIDTH__ #define __INT_LEAST16_WIDTH__ 16 9.47.1.288 __INT_LEAST32_FMTd__ #define __INT_LEAST32_FMTd__ "d" 9.47.1.289 __INT_LEAST32_FMTi__ #define __INT_LEAST32_FMTi__ "i" 9.47.1.290 __INT_LEAST32_MAX__

#define __INT_LEAST32_MAX__ 2147483647

9.47.1.291 __INT_LEAST32_TYPE__

#define __INT_LEAST32_TYPE__ int

9.47.1.292 __INT_LEAST32_WIDTH__

#define __INT_LEAST32_WIDTH__ 32

9.47.1.293 __INT_LEAST64_FMTd__ #define __INT_LEAST64_FMTd__ "lld" 9.47.1.294 __INT_LEAST64_FMTi__ #define __INT_LEAST64_FMTi__ "lli" 9.47.1.295 __INT_LEAST64_MAX__ #define __INT_LEAST64_MAX__ 9223372036854775807LL 9.47.1.296 __INT_LEAST64_TYPE__ #define __INT_LEAST64_TYPE__ long long int 9.47.1.297 __INT_LEAST64_WIDTH__ #define __INT_LEAST64_WIDTH__ 64 9.47.1.298 __INT_LEAST8_FMTd__ #define __INT_LEAST8_FMTd__ "hhd" 9.47.1.299 __INT_LEAST8_FMTi__ #define __INT_LEAST8_FMTi__ "hhi" 9.47.1.300 __INT_LEAST8_MAX__ #define __INT_LEAST8_MAX__ 127 9.47.1.301 __INT_LEAST8_TYPE__ #define __INT_LEAST8_TYPE__ signed char 9.47.1.302 __INT_LEAST8_WIDTH__

#define __INT_LEAST8_WIDTH__ 8

9.47.1.303 __INT_MAX__

#define __INT_MAX__ 2147483647

9.47.1.304 __INT_WIDTH__

#define __INT_WIDTH__ 32

9.47.1.305 __INTMAX_C_SUFFIX__

#define __INTMAX_C_SUFFIX__ L

9.47.1.306 __INTMAX_FMTd__

#define __INTMAX_FMTd__ "ld"

9.47.1.307 __INTMAX_FMTi__

#define __INTMAX_FMTi__ "li"

9.47.1.308 __INTMAX_MAX__

#define __INTMAX_MAX__ 9223372036854775807L

9.47.1.309 __INTMAX_TYPE__

#define __INTMAX_TYPE__ long int

9.47.1.310 __INTMAX_WIDTH__

#define __INTMAX_WIDTH__ 64

9.47.1.311 __INTPTR_FMTd__

#define __INTPTR_FMTd__ "ld"

9.47.1.312 __INTPTR_FMTi__

#define __INTPTR_FMTi__ "li"

9.47.1.313 __INTPTR_MAX__ #define __INTPTR_MAX__ 9223372036854775807L 9.47.1.314 __INTPTR_TYPE__ #define __INTPTR_TYPE__ long int 9.47.1.315 __INTPTR_WIDTH__ #define __INTPTR_WIDTH__ 64 9.47.1.316 __LDBL_DECIMAL_DIG__ #define __LDBL_DECIMAL_DIG__ 17 9.47.1.317 __LDBL_DENORM_MIN__ #define __LDBL_DENORM_MIN__ 4.9406564584124654e-324L 9.47.1.318 _LDBL_DIG__ #define __LDBL_DIG__ 15 9.47.1.319 __LDBL_EPSILON__ #define __LDBL_EPSILON__ 2.2204460492503131e-16L 9.47.1.320 _LDBL_HAS_DENORM_ #define __LDBL_HAS_DENORM__ 1 9.47.1.321 __LDBL_HAS_INFINITY__ #define __LDBL_HAS_INFINITY__ 1

9.47.1.322 __LDBL_HAS_QUIET_NAN__

#define __LDBL_HAS_QUIET_NAN__ 1

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9.47.1.323 __LDBL_MANT_DIG__

#define __LDBL_MANT_DIG__ 53

9.47.1.324 __LDBL_MAX_10_EXP__

#define __LDBL_MAX_10_EXP__ 308

9.47.1.325 __LDBL_MAX__

#define __LDBL_MAX__ 1.7976931348623157e+308L

9.47.1.326 __LDBL_MAX_EXP__

#define _LDBL_MAX_EXP__ 1024

9.47.1.327 __LDBL_MIN_10_EXP__

#define __LDBL_MIN_10_EXP__ (-307)

9.47.1.328 __LDBL_MIN__

#define __LDBL_MIN__ 2.2250738585072014e-308L

9.47.1.329 __LDBL_MIN_EXP__

#define __LDBL_MIN_EXP__ (-1021)

9.47.1.330 __LDBL_NORM_MAX__

#define __LDBL_NORM_MAX__ 1.7976931348623157e+308L

9.47.1.331 __LITTLE_ENDIAN__

#define __LITTLE_ENDIAN__ 1

9.47.1.332 __LLONG_WIDTH__

#define __LLONG_WIDTH__ 64

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9.47.1.333 __llvm__
#define __llvm__ 1
9.47.1.334 __LONG_LONG_MAX__
#define __LONG_LONG_MAX__ 9223372036854775807LL
9.47.1.335 __LONG_MAX__
#define __LONG_MAX__ 9223372036854775807L
9.47.1.336 __LONG_WIDTH__
#define __LONG_WIDTH__ 64
9.47.1.337 __LP64__
#define __LP64__ 1
9.47.1.338 __MACH__
#define __MACH__ 1
9.47.1.339 __MEMORY_SCOPE_DEVICE
#define __MEMORY_SCOPE_DEVICE 1
9.47.1.340 __MEMORY_SCOPE_SINGLE
#define __MEMORY_SCOPE_SINGLE 4
9.47.1.341 __MEMORY_SCOPE_SYSTEM
#define __MEMORY_SCOPE_SYSTEM 0
```

9.47.1.342 __MEMORY_SCOPE_WRKGRP

#define __MEMORY_SCOPE_WRKGRP 2

9.47.1.343 __MEMORY_SCOPE_WVFRNT

#define __MEMORY_SCOPE_WVFRNT 3

9.47.1.344 __NO_INLINE__

#define __NO_INLINE__ 1

9.47.1.345 __NO_MATH_ERRNO__

#define __NO_MATH_ERRNO__ 1

9.47.1.346 __nonnull

#define __nonnull _Nonnull

9.47.1.347 __null_unspecified

#define _null_unspecified _Null_unspecified

9.47.1.348 __nullable

#define __nullable _Nullable

9.47.1.349 __OBJC_BOOL_IS_BOOL

#define __OBJC_BOOL_IS_BOOL 1

9.47.1.350 __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES

#define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3

9.47.1.351 __OPENCL_MEMORY_SCOPE_DEVICE

#define __OPENCL_MEMORY_SCOPE_DEVICE 2

9.47.1.352 __OPENCL_MEMORY_SCOPE_SUB_GROUP

#define __OPENCL_MEMORY_SCOPE_SUB_GROUP 4

9.47.1.353 __OPENCL_MEMORY_SCOPE_WORK_GROUP

#define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1

9.47.1.354 __OPENCL_MEMORY_SCOPE_WORK_ITEM

#define __OPENCL_MEMORY_SCOPE_WORK_ITEM 0

9.47.1.355 __ORDER_BIG_ENDIAN__

#define __ORDER_BIG_ENDIAN__ 4321

9.47.1.356 __ORDER_LITTLE_ENDIAN__

#define __ORDER_LITTLE_ENDIAN__ 1234

9.47.1.357 __ORDER_PDP_ENDIAN__

#define __ORDER_PDP_ENDIAN__ 3412

9.47.1.358 __PIC__

#define __PIC__ 2

9.47.1.359 __pic__

#define __pic__ 2

9.47.1.360 __POINTER_WIDTH__

#define __POINTER_WIDTH__ 64

9.47.1.361 __PRAGMA_REDEFINE_EXTNAME

#define __PRAGMA_REDEFINE_EXTNAME 1

9.47.1.362 __private_extern__

#define __private_extern__ extern

9.47.1.363 __PTRDIFF_FMTd__

#define __PTRDIFF_FMTd__ "ld"

9.47.1.364 __PTRDIFF_FMTi__

#define __PTRDIFF_FMTi__ "li"

9.47.1.365 __PTRDIFF_MAX__

#define __PTRDIFF_MAX__ 9223372036854775807L

9.47.1.366 __PTRDIFF_TYPE__

#define __PTRDIFF_TYPE__ long int

9.47.1.367 __PTRDIFF_WIDTH__

#define __PTRDIFF_WIDTH__ 64

9.47.1.368 __REGISTER_PREFIX__

#define __REGISTER_PREFIX__

9.47.1.369 __SCHAR_MAX__

#define __SCHAR_MAX__ 127

9.47.1.370 __SHRT_MAX__

#define __SHRT_MAX__ 32767

9.47.1.371 __SHRT_WIDTH__

#define __SHRT_WIDTH__ 16

9.47.1.372 __SIG_ATOMIC_MAX__

#define __SIG_ATOMIC_MAX__ 2147483647

9.47.1.373 __SIG_ATOMIC_WIDTH__ #define __SIG_ATOMIC_WIDTH__ 32 9.47.1.374 __SIZE_FMTo__ #define __SIZE_FMTo__ "lo" 9.47.1.375 __SIZE_FMTu__ #define __SIZE_FMTu__ "lu" 9.47.1.376 __SIZE_FMTX__ #define __SIZE_FMTX__ "1X" 9.47.1.377 __SIZE_FMTx__ #define __SIZE_FMTx__ "lx" 9.47.1.378 __SIZE_MAX__ #define __SIZE_MAX__ 18446744073709551615UL 9.47.1.379 __SIZE_TYPE__ #define __SIZE_TYPE__ long unsigned int 9.47.1.380 __SIZE_WIDTH__ #define __SIZE_WIDTH__ 64 9.47.1.381 __SIZEOF_DOUBLE__ #define __SIZEOF_DOUBLE__ 8

9.47.1.382 __SIZEOF_FLOAT__

#define __SIZEOF_FLOAT__ 4

9.47.1.383 __SIZEOF_INT128__ #define __SIZEOF_INT128__ 16 9.47.1.384 __SIZEOF_INT__ #define __SIZEOF_INT__ 4 9.47.1.385 __SIZEOF_LONG__ #define __SIZEOF_LONG__ 8 9.47.1.386 __SIZEOF_LONG_DOUBLE_ #define __SIZEOF_LONG_DOUBLE__ 8 9.47.1.387 __SIZEOF_LONG_LONG_ #define __SIZEOF_LONG_LONG__ 8 9.47.1.388 __SIZEOF_POINTER__ #define __SIZEOF_POINTER__ 8 9.47.1.389 __SIZEOF_PTRDIFF_T_ #define __SIZEOF_PTRDIFF_T__ 8 9.47.1.390 __SIZEOF_SHORT__

#define __SIZEOF_SHORT__ 2

9.47.1.391 __SIZEOF_SIZE_T__

#define __SIZEOF_SIZE_T__ 8

9.47.1.392 __SIZEOF_WCHAR_T__

#define __SIZEOF_WCHAR_T__ 4

9.47.1.393 __SIZEOF_WINT_T__ #define __SIZEOF_WINT_T__ 4 9.47.1.394 __SSP__ #define __SSP__ 1 9.47.1.395 __STDC__ #define __STDC__ 1 9.47.1.396 __STDC_EMBED_EMPTY__ #define __STDC_EMBED_EMPTY__ 2 9.47.1.397 __STDC_EMBED_FOUND_ #define __STDC_EMBED_FOUND__ 1 9.47.1.398 __STDC_EMBED_NOT_FOUND__ #define __STDC_EMBED_NOT_FOUND__ 0 9.47.1.399 __STDC_HOSTED__ #define __STDC_HOSTED__ 1 9.47.1.400 __STDC_NO_THREADS__ #define __STDC_NO_THREADS__ 1 9.47.1.401 __STDC_UTF_16__ #define __STDC_UTF_16__ 1 9.47.1.402 __STDC_UTF_32__

#define __STDC_UTF_32__ 1

9.47.1.403 __STDCPP_DEFAULT_NEW_ALIGNMENT__

#define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL

9.47.1.404 __STDCPP_THREADS__

#define __STDCPP_THREADS__ 1

9.47.1.405 __strong

#define __strong

9.47.1.406 __UINT16_C_SUFFIX__

#define __UINT16_C_SUFFIX__

9.47.1.407 __UINT16_FMTo__

#define __UINT16_FMTo__ "ho"

9.47.1.408 __UINT16_FMTu__

#define __UINT16_FMTu__ "hu"

9.47.1.409 __UINT16_FMTX__

#define __UINT16_FMTX__ "hX"

9.47.1.410 __UINT16_FMTx__

#define __UINT16_FMTx__ "hx"

9.47.1.411 __UINT16_MAX__

#define __UINT16_MAX__ 65535

9.47.1.412 __UINT16_TYPE__

#define __UINT16_TYPE__ unsigned short

9.47.1.413 __UINT32_C_SUFFIX__ #define __UINT32_C_SUFFIX__ U 9.47.1.414 __UINT32_FMTo__ #define __UINT32_FMTo__ "o" 9.47.1.415 __UINT32_FMTu__ #define __UINT32_FMTu__ "u" 9.47.1.416 __UINT32_FMTX__ #define __UINT32_FMTX__ "X" 9.47.1.417 __UINT32_FMTx__ #define __UINT32_FMTx__ "x" 9.47.1.418 __UINT32_MAX__ #define __UINT32_MAX__ 4294967295U 9.47.1.419 __UINT32_TYPE__ #define __UINT32_TYPE__ unsigned int 9.47.1.420 __UINT64_C_SUFFIX__ #define __UINT64_C_SUFFIX__ ULL 9.47.1.421 __UINT64_FMTo__ #define __UINT64_FMTo__ "llo"

9.47.1.422 __UINT64_FMTu__

#define __UINT64_FMTu__ "llu"

9.47.1.423 __UINT64_FMTX__

#define __UINT64_FMTX__ "llX"

9.47.1.424 __UINT64_FMTx__

#define __UINT64_FMTx__ "llx"

9.47.1.425 __UINT64_MAX__

#define __UINT64_MAX__ 18446744073709551615ULL

9.47.1.426 __UINT64_TYPE__

#define __UINT64_TYPE__ long long unsigned int

9.47.1.427 __UINT8_C_SUFFIX__

#define __UINT8_C_SUFFIX__

9.47.1.428 __UINT8_FMTo__

#define __UINT8_FMTo__ "hho"

9.47.1.429 __UINT8_FMTu__

#define __UINT8_FMTu__ "hhu"

9.47.1.430 __UINT8_FMTX__

#define __UINT8_FMTX__ "hhX"

9.47.1.431 __UINT8_FMTx__

#define __UINT8_FMTx__ "hhx"

9.47.1.432 __UINT8_MAX__

#define __UINT8_MAX__ 255

9.47.1.433 __UINT8_TYPE__ #define __UINT8_TYPE_ unsigned char 9.47.1.434 __UINT_FAST16_FMTo__ #define __UINT_FAST16_FMTo__ "ho" 9.47.1.435 __UINT_FAST16_FMTu__ #define __UINT_FAST16_FMTu__ "hu" 9.47.1.436 __UINT_FAST16_FMTX__ #define __UINT_FAST16_FMTX__ "hX" 9.47.1.437 __UINT_FAST16_FMTx__ #define __UINT_FAST16_FMTx__ "hx" 9.47.1.438 __UINT_FAST16_MAX__ #define __UINT_FAST16_MAX__ 65535 9.47.1.439 __UINT_FAST16_TYPE__ #define __UINT_FAST16_TYPE__ unsigned short 9.47.1.440 __UINT_FAST32_FMTo__ #define __UINT_FAST32_FMTo__ "o" 9.47.1.441 __UINT_FAST32_FMTu__ #define __UINT_FAST32_FMTu__ "u"

9.47.1.442 __UINT_FAST32_FMTX__

#define __UINT_FAST32_FMTX__ "X"

9.47.1.443 __UINT_FAST32_FMTx__

#define __UINT_FAST32_FMTx__ "x"

9.47.1.444 __UINT_FAST32_MAX__

#define __UINT_FAST32_MAX__ 4294967295U

9.47.1.445 __UINT_FAST32_TYPE__

#define __UINT_FAST32_TYPE__ unsigned int

9.47.1.446 __UINT_FAST64_FMTo__

#define __UINT_FAST64_FMTo__ "llo"

9.47.1.447 __UINT_FAST64_FMTu__

#define __UINT_FAST64_FMTu__ "llu"

9.47.1.448 __UINT_FAST64_FMTX__

#define _UINT_FAST64_FMTX__ "11X"

9.47.1.449 __UINT_FAST64_FMTx__

#define _UINT_FAST64_FMTx__ "llx"

9.47.1.450 __UINT_FAST64_MAX__

#define __UINT_FAST64_MAX__ 18446744073709551615ULL

9.47.1.451 __UINT_FAST64_TYPE__

#define __UINT_FAST64_TYPE__ long long unsigned int

9.47.1.452 __UINT_FAST8_FMTo__

#define __UINT_FAST8_FMTo__ "hho"

9.47.1.453 __UINT_FAST8_FMTu__ #define __UINT_FAST8_FMTu__ "hhu" 9.47.1.454 __UINT_FAST8_FMTX__ #define __UINT_FAST8_FMTX__ "hhX" 9.47.1.455 __UINT_FAST8_FMTx__ #define __UINT_FAST8_FMTx__ "hhx" 9.47.1.456 __UINT_FAST8_MAX__ #define __UINT_FAST8_MAX__ 255 9.47.1.457 __UINT_FAST8_TYPE__ #define __UINT_FAST8_TYPE_ unsigned char 9.47.1.458 __UINT_LEAST16_FMTo__ #define __UINT_LEAST16_FMTo__ "ho" 9.47.1.459 __UINT_LEAST16_FMTu__ #define __UINT_LEAST16_FMTu__ "hu" 9.47.1.460 __UINT_LEAST16_FMTX__ #define __UINT_LEAST16_FMTX__ "hX" 9.47.1.461 __UINT_LEAST16_FMTx__ #define __UINT_LEAST16_FMTx__ "hx" 9.47.1.462 __UINT_LEAST16_MAX__

#define __UINT_LEAST16_MAX__ 65535

9.47.1.463 __UINT_LEAST16_TYPE__

#define __UINT_LEAST16_TYPE_ unsigned short

9.47.1.464 __UINT_LEAST32_FMTo__

#define __UINT_LEAST32_FMTo__ "o"

9.47.1.465 __UINT_LEAST32_FMTu__

#define __UINT_LEAST32_FMTu__ "u"

9.47.1.466 __UINT_LEAST32_FMTX__

#define __UINT_LEAST32_FMTX__ "X"

9.47.1.467 __UINT_LEAST32_FMTx__

#define __UINT_LEAST32_FMTx__ "x"

9.47.1.468 __UINT_LEAST32_MAX__

#define __UINT_LEAST32_MAX__ 4294967295U

9.47.1.469 __UINT_LEAST32_TYPE__

#define __UINT_LEAST32_TYPE__ unsigned int

9.47.1.470 __UINT_LEAST64_FMTo__

#define __UINT_LEAST64_FMTo__ "llo"

9.47.1.471 __UINT_LEAST64_FMTu__

#define __UINT_LEAST64_FMTu__ "llu"

9.47.1.472 __UINT_LEAST64_FMTX__

#define __UINT_LEAST64_FMTX__ "11X"

9.47.1.473 __UINT_LEAST64_FMTx__ #define __UINT_LEAST64_FMTx__ "llx" 9.47.1.474 __UINT_LEAST64_MAX__ #define __UINT_LEAST64_MAX__ 18446744073709551615ULL 9.47.1.475 __UINT_LEAST64_TYPE__ #define __UINT_LEAST64_TYPE__ long long unsigned int 9.47.1.476 __UINT_LEAST8_FMTo__ #define __UINT_LEAST8_FMTo__ "hho" 9.47.1.477 __UINT_LEAST8_FMTu__ #define __UINT_LEAST8_FMTu__ "hhu" 9.47.1.478 __UINT_LEAST8_FMTX__ #define __UINT_LEAST8_FMTX__ "hhx" 9.47.1.479 __UINT_LEAST8_FMTx__ #define __UINT_LEAST8_FMTx__ "hhx" 9.47.1.480 __UINT_LEAST8_MAX__ #define __UINT_LEAST8_MAX__ 255 9.47.1.481 __UINT_LEAST8_TYPE__ #define __UINT_LEAST8_TYPE_ unsigned char

9.47.1.482 __UINTMAX_C_SUFFIX__

#define __UINTMAX_C_SUFFIX__ UL

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9.47.1.483 __UINTMAX_FMTo__ #define __UINTMAX_FMTo__ "lo" 9.47.1.484 __UINTMAX_FMTu__ #define __UINTMAX_FMTu__ "lu" 9.47.1.485 __UINTMAX_FMTX__ #define __UINTMAX_FMTX__ "lX" 9.47.1.486 __UINTMAX_FMTx_ #define __UINTMAX_FMTx__ "lx" 9.47.1.487 __UINTMAX_MAX__ #define __UINTMAX_MAX__ 18446744073709551615UL 9.47.1.488 __UINTMAX_TYPE__ #define __UINTMAX_TYPE_ long unsigned int 9.47.1.489 __UINTMAX_WIDTH__ #define __UINTMAX_WIDTH__ 64 9.47.1.490 __UINTPTR_FMTo__ #define __UINTPTR_FMTo__ "lo" 9.47.1.491 __UINTPTR_FMTu__

#define __UINTPTR_FMTu__ "lu"

9.47.1.492 __UINTPTR_FMTX__

#define __UINTPTR_FMTX__ "lX"

9.47.1.493 __UINTPTR_FMTx__ #define __UINTPTR_FMTx__ "lx" 9.47.1.494 __UINTPTR_MAX__ #define __UINTPTR_MAX__ 18446744073709551615UL 9.47.1.495 __UINTPTR_TYPE__ #define __UINTPTR_TYPE__ long unsigned int 9.47.1.496 __UINTPTR_WIDTH__ #define __UINTPTR_WIDTH__ 64 9.47.1.497 __unsafe_unretained #define __unsafe_unretained 9.47.1.498 _USER_LABEL_PREFIX_ #define __USER_LABEL_PREFIX__ _ 9.47.1.499 __VERSION__ #define __VERSION__ "Apple LLVM 17.0.0 (clang-1700.0.13.3)" 9.47.1.500 __WCHAR_MAX__ #define __WCHAR_MAX__ 2147483647 9.47.1.501 __WCHAR_TYPE__ #define __WCHAR_TYPE__ int

9.47.1.502 __WCHAR_WIDTH__

#define __WCHAR_WIDTH__ 32

9.47.1.503 __weak

#define __weak __attribute__((objc_gc(weak)))

9.47.1.504 __WINT_MAX__

#define __WINT_MAX__ 2147483647

9.47.1.505 __WINT_TYPE__

#define __WINT_TYPE__ int

9.47.1.506 __WINT_WIDTH__

#define __WINT_WIDTH__ 32

9.47.1.507 _LP64

#define _LP64 1

9.47.1.508 QT_CHARTS_LIB

#define QT_CHARTS_LIB 1

9.47.1.509 QT_CORE_LIB

#define QT_CORE_LIB 1

9.47.1.510 QT_GUI_LIB

#define QT_GUI_LIB 1

9.47.1.511 QT_NETWORK_LIB

#define QT_NETWORK_LIB 1

9.47.1.512 QT_NO_DEBUG

#define QT_NO_DEBUG 1

9.47.1.513 QT_OPENGL_LIB

#define QT_OPENGL_LIB 1

9.47.1.514 QT_OPENGLWIDGETS_LIB

#define QT_OPENGLWIDGETS_LIB 1

9.47.1.515 QT_WIDGETS_LIB

#define QT_WIDGETS_LIB 1

9.47.1.516 SIZEOF_DPTR

#define SIZEOF_DPTR (sizeof(void*))

9.47.1.517 TARGET_IPHONE_SIMULATOR

#define TARGET_IPHONE_SIMULATOR 0

9.47.1.518 TARGET_OS_ARROW

#define TARGET_OS_ARROW 1

9.47.1.519 TARGET_OS_BRIDGE

#define TARGET_OS_BRIDGE 0

9.47.1.520 TARGET_OS_DRIVERKIT

#define TARGET_OS_DRIVERKIT 0

9.47.1.521 TARGET_OS_EMBEDDED

#define TARGET_OS_EMBEDDED 0

9.47.1.522 TARGET_OS_IOS

#define TARGET_OS_IOS 0

9.47.1.523 TARGET_OS_IOSMAC

#define TARGET_OS_IOSMAC 0

9.47.1.524 TARGET_OS_IPHONE

#define TARGET_OS_IPHONE 0

9.47.1.525 TARGET_OS_LINUX

#define TARGET_OS_LINUX 0

9.47.1.526 TARGET_OS_MAC

#define TARGET_OS_MAC 1

9.47.1.527 TARGET_OS_MACCATALYST

#define TARGET_OS_MACCATALYST 0

9.47.1.528 TARGET_OS_NANO

#define TARGET_OS_NANO 0

9.47.1.529 TARGET_OS_OSX

#define TARGET_OS_OSX 1

9.47.1.530 TARGET_OS_SIMULATOR

#define TARGET_OS_SIMULATOR 0

9.47.1.531 TARGET_OS_TV

#define TARGET_OS_TV 0

9.47.1.532 TARGET_OS_UIKITFORMAC

#define TARGET_OS_UIKITFORMAC 0

9.47.1.533 TARGET_OS_UNIX

#define TARGET_OS_UNIX 0

9.47.1.534 TARGET_OS_VISION

#define TARGET_OS_VISION 0

9.47.1.535 TARGET_OS_WATCH

#define TARGET_OS_WATCH 0

9.47.1.536 TARGET_OS_WIN32

#define TARGET_OS_WIN32 0

9.47.1.537 TARGET_OS_WINDOWS

#define TARGET_OS_WINDOWS 0

9.47.1.538 TARGET_OS_XR

#define TARGET_OS_XR 0

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```
00001 #define QT_CHARTS_LIB 1
00002 #define QT_CORE_LIB 1
00003 #define QT_GUI_LIB 1
00004 #define QT_NETWORK_LIB 1
00005 #define QT_NO_DEBUG 1
00006 #define QT.OPENGLWIDGETS_LIB 1
00007 #define QT.OPENGL_LIB 1
00008 #define QT_WIDGETS_LIB 1
00009 #define SIZEOF_DPTR (sizeof(void*))
00010 #define TARGET_IPHONE_SIMULATOR 0
00011 #define TARGET_OS_ARROW 1
00012 #define TARGET_OS_BRIDGE 0
00013 #define TARGET_OS_DRIVERKIT 0
00014 #define TARGET_OS_EMBEDDED 0
00015 #define TARGET_OS_IOS 0
00016 #define TARGET_OS_IOSMAC 0
00017 #define TARGET_OS_IPHONE 0
00018 #define TARGET_OS_LINUX 0
00019 #define TARGET_OS_MAC 1
00020 #define TARGET_OS_MACCATALYST 0
00021 #define TARGET_OS_NANO 0
00022 #define TARGET_OS_OSX 1
00023 #define TARGET_OS_SIMULATOR 0
00024 #define TARGET_OS_TV 0
00025 #define TARGET_OS_UIKITFORMAC 0
00026 #define TARGET_OS_UNIX 0
00027 #define TARGET_OS_VISION 0
00028 #define TARGET_OS_WATCH 0
00029 #define TARGET_OS_WIN32 0
```

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```
00030 #define TARGET_OS_WINDOWS 0
00031 #define TARGET_OS_XR 0
00032 #define _LP64 1
00033 #define __AARCH64EL__ 1
00034 #define __AARCH64_CMODEL_SMALL__ 1
00035 #define __AARCH64_SIMD__ 1
00036 #define __APPLE_CC__ 6000
00037 #define __APPLE__ 1
00038 #define __ARM64_ARCH_8__ 1
00039 #define __ARM_64BIT_STATE 1
00040 #define __ARM_ACLE 200
00041 #define __ARM_ALIGN_MAX_STACK_PWR 4
00042 #define __ARM_ARCH 8
00043 #define __ARM_ARCH_8_3__ 1
00044 #define __ARM_ARCH_8_4__ 1
00045 #define __ARM_ARCH_8_5__
00046 #define __ARM_ARCH_ISA_A64 1
00047 #define _ARM_ARCH_PROFILE 'A'
00048 #define _ARM_FEATURE_AES 1
00049 #define __ARM_FEATURE_ATOMICS 1
00050 #define _ARM_FEATURE_BTI 1
00051 #define __ARM_FEATURE_CLZ 1
00052 #define __ARM_FEATURE_COMPLEX 1
00053 #define _ARM_FEATURE_CRC32 1
00054 #define __ARM_FEATURE_CRYPTO 1
00055 #define _ARM_FEATURE_DIRECTED_ROUNDING 1
00056 #define __ARM_FEATURE_DIV 1
00057 #define __ARM_FEATURE_DOTPROD 1
00058 #define _ARM_FEATURE_FMA 1
00059 #define __ARM_FEATURE_FP16_FML 1
00060 #define _ARM_FEATURE_FP16_SCALAR_ARITHMETIC 1
00061 #define _ARM_FEATURE_FP16_VECTOR_ARITHMETIC 1
00062 #define _ARM_FEATURE_FRINT 1
00063 #define __ARM_FEATURE_IDIV 1
00064 #define __ARM_FEATURE_JCVT 1
00065 #define _ARM_FEATURE_LDREX 0xF
00066 #define _ARM_FEATURE_NUMERIC_MAXMIN 1
00067 #define __ARM_FEATURE_PAUTH 1
00068 #define __ARM_FEATURE_QRDMX 1
00069 #define __ARM_FEATURE_RCPC 1
00070 #define __ARM_FEATURE_SHA2
00071 #define __ARM_FEATURE_SHA3 1
00072 #define __ARM_FEATURE_SHA512
00073 #define _ARM_FEATURE_UNALIGNED 1
00074 #define __ARM_FP 0xE
00075 #define __ARM_FP16_ARGS 1
00076 #define __ARM_FP16_FORMAT_IEEE 1
00077 #define __ARM_NEON 1
00078 #define _ARM_NEON_FP 0xE
00079 #define __ARM_NEON__ 1
00080 #define _ARM_PCS_AAPCS64
00081 #define _ARM_SIZEOF_MINIMAL_ENUM 4
00082 #define __ARM_SIZEOF_WCHAR_T 4
00083 #define __ARM_STATE_ZA 1
00084 #define __ARM_STATE_ZT0 1
00085 #define _ATOMIC_ACQUIRE 2
00086 #define _ATOMIC_ACQ_REL 4
00087 #define __ATOMIC_CONSUME
00088 #define __ATOMIC_RELAXED 0
00089 #define __ATOMIC_RELEASE 3
00090 #define __ATOMIC_SEQ_CST 5
00091 #define __BIGGEST_ALIGNMENT_ 8
00092 #define __BITINT_MAXWIDTH__ 128
00093 #define __BLOCKS__ 1
00094 #define __BOOL_WIDTH__ 8
00095 #define __BYTE_ORDER__ _ORDER_LITTLE_ENDIAN__
00096 #define __CHAR16_TYPE_ unsigned short
00097 #define __CHAR32_TYPE__ unsigned int
00098 #define __CHAR_BIT__ 8
00099 #define __CLANG_ATOMIC_BOOL_LOCK_FREE 2
00100 #define __CLANG_ATOMIC_CHAR16_T_LOCK_FREE 2
00101 #define __CLANG_ATOMIC_CHAR32_T_LOCK_FREE 2
00102 #define __CLANG_ATOMIC_CHAR_LOCK_FREE 2
00103 #define __CLANG_ATOMIC_INT_LOCK_FREE 2
00104 #define __CLANG_ATOMIC_LLONG_LOCK_FREE 2
00105 #define __CLANG_ATOMIC_LONG_LOCK_FREE 2
00106 #define __CLANG_ATOMIC_POINTER_LOCK_FREE 2
00107 #define __CLANG_ATOMIC_SHORT_LOCK_FREE 2
00108 #define __CLANG_ATOMIC_WCHAR_T_LOCK_FREE 2
00109 #define __CONSTANT_CFSTRINGS__ 1
00110 #define __DBL_DECIMAL_DIG__ 17
00111 #define __DBL_DENORM_MIN__ 4.9406564584124654e-324
00112 #define __DBL_DIG__ 15
00113 #define __DBL_EPSILON__ 2.2204460492503131e-16
00114 #define __DBL_HAS_DENORM__ 1
00115 #define __DBL_HAS_INFINITY__ :
00116 #define __DBL_HAS_QUIET_NAN__ 1
```

```
00117 #define __DBL_MANT_DIG__ 53
00118 #define __DBL_MAX_10_EXP__ 308
00119 #define __DBL_MAX_EXP__ 1024
00120 #define __DBL_MAX__ 1.7976931348623157e+308
00121 #define __DBL_MIN_10_EXP__ (-307)
00122 #define __DBL_MIN_EXP__ (-1021)
00123 #define __DBL_MIN__ 2.2250738585072014e-308
00124 #define __DBL_NORM_MAX__ 1.7976931348623157e+308
00125 #define __DECIMAL_DIG__ _LDBL_DECIMAL_DIG__
00126 #define __DEPRECATED 1
00127 #define __DYNAMIC__ 1
00128 #define __ENVIRONMENT_MAC_OS_X_VERSION_MIN_REQUIRED__ 150000
00129 #define __ENVIRONMENT_OS_VERSION_MIN_REQUIRED__ 150000
00130 #define __EXCEPTIONS 1
00131 #define __FINITE_MATH_ONLY__ 0
00132 #define __FLT16_DECIMAL_DIG__ 5
00133 #define __FLT16_DENORM_MIN__ 5.9604644775390625e-8F16
00134 #define __FLT16_DIG__ 3
00135 #define __FLT16_EPSILON__ 9.765625e-4F16
00136 #define __FLT16_HAS_DENORM__ 1
00137 #define __FLT16_HAS_INFINITY__ 1
00138 #define __FLT16_HAS_QUIET_NAN__ 1
00139 #define __FLT16_MANT_DIG__ 11
00140 #define __FLT16_MAX_10_EXP__ 4
00141 #define _FLT16_MAX_EXP__ 16
00142 #define __FLT16_MAX__ 6.5504e+4F16
00143 #define __FLT16_MIN_10_EXP__ (-4)
00144 #define __FLT16_MIN_EXP__ (-13)
00145 #define __FLT16_MIN__ 6.103515625e-5F16
00146 #define __FLT16_NORM_MAX__ 6.5504e+4F16
00147 #define __FLT_DECIMAL_DIG__ 9
00148 #define __FLT_DENORM_MIN__ 1.40129846e-45F
00149 #define __FLT_DIG__ 6
00150 #define __FLT_EPSILON__ 1.19209290e-7F
00151 #define __FLT_HAS_DENORM__ 1
00152 #define __FLT_HAS_INFINITY__ 1
00153 #define __FLT_HAS_QUIET_NAN__ 1
00154 #define __FLT_MANT_DIG__ 24
00155 #define __FLT_MAX_10_EXP__ 38
00156 #define __FLT_MAX_EXP__ 128
00157 #define __FLT_MAX__ 3.40282347e+38F
00158 #define __FLT_MIN_10_EXP__ (-37)
00159 #define __FLT_MIN_EXP__ (-125)
00160 #define __FLT_MIN__ 1.17549435e-38F
00161 #define __FLT_NORM_MAX__ 3.40282347e+38F
00162 #define __FLT_RADIX__ 2
00163 #define __FPCLASS_NEGINF 0x0004
00164 #define __FPCLASS_NEGNORMAL 0x0008
00165 #define __FPCLASS_NEGSUBNORMAL 0x0010
00166 #define __FPCLASS_NEGZERO 0x0020
00167 #define __FPCLASS_POSINF 0x0200
00168 #define __FPCLASS_POSNORMAL 0x0100
00169 #define __FPCLASS_POSSUBNORMAL 0x0080
00170 #define __FPCLASS_POSZERO 0x0040
00171 #define __FPCLASS_QNAN 0x0002
00172 #define __FPCLASS_SNAN 0x0001
00173 #define __FP_FAST_FMA 1
00174 #define __FP_FAST_FMAF 1
00175 #define __GCC_ASM_FLAG_OUTPUTS__
00176 #define __GCC_ATOMIC_BOOL_LOCK_FREE 2
00177 #define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2
00178 #define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2
00179 #define __GCC_ATOMIC_CHAR_LOCK_FREE 2
00180 #define __GCC_ATOMIC_INT_LOCK_FREE 2
00181 #define __GCC_ATOMIC_LLONG_LOCK_FREE 2
00182 #define __GCC_ATOMIC_LONG_LOCK_FREE 2
00183 #define _GCC_ATOMIC_POINTER_LOCK_FREE 2
00184 #define __GCC_ATOMIC_SHORT_LOCK_FREE 2
00185 #define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1
00186 #define __GCC_ATOMIC_WCHAR_T_LOCK_FREE 2
00187 #define __GCC_CONSTRUCTIVE_SIZE 64
00188 #define __GCC_DESTRUCTIVE_SIZE 64
00189 #define __GCC_HAVE_DWARF2_CFI_ASM 1
00190 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1
00191 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_16 1
00192 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1
00193 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1
00194 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1
00195 #define __GLIBCXX_BITSIZE_INT_N_0 128
00196 #define __GLIBCXX_TYPE_INT_N_0 __int128
00197 #define __GNUC_GNU_INLINE__ 1
00198 #define __GNUC_MINOR__ 2
00199 #define __GNUC_PATCHLEVEL__ 1
00200 #define __GNUC__ 4
00201 #define __GNUG__ 4
00202 #define _GXX_ABI_VERSION 1002
00203 #define __GXX_EXPERIMENTAL_CXX0X__ 1
```

```
00204 #define __GXX_RTTI 1
00205 #define __GXX_WEAK__ 1
00206 #define __HAVE_FUNCTION_MULTI_VERSIONING 1
00207 #define __INT16_C_SUFFIX__
00208 #define __INT16_FMTd__ "hd" 00209 #define __INT16_FMTi__ "hi"
00210 #define __INT16_MAX__ 32767
00211 #define __INT16_TYPE_ short
00212 #define __INT32_C_SUFFIX__
00213 #define __INT32_FMTd__ "d"
00214 #define __INT32_FMTi__ "i"
00215 #define __INT32_MAX__ 2147483647
00216 #define __INT32_TYPE_ int
00217 #define __INT64_C_SUFFIX__ LI
00218 #define __INT64_FMTd__ "lld"
00219 #define __INT64_FMTi__ "lli"
00220 #define __INT64_MAX__ 9223372036854775807LL
00221 #define __INT64_TYPE__ long long int
00222 #define __INT8_C_SUFFIX__
00223 #define __INT8_FMTd__ "hhd"
00224 #define __INT8_FMTi__ "hhi"
00225 #define __INT8_MAX__ 127
00226 #define __INT8_TYPE__ signed char 00227 #define __INTMAX_C_SUFFIX_ L
00228 #define _INTMAX_FMTd_ "ld"
00229 #define _INTMAX_FMTi_ "li"
00230 #define __INTMAX_MAX_ 9223372036854775807L
00231 #define __INTMAX_TYPE_ long int
00232 #define __INTMAX.WIDTH__ 64
00233 #define __INTPTR_FMTd__ "ld"
00234 #define __INTPTR_FMTi__ "li"
00235 #define __INTPTR_MAX__ 9223372036854775807L
00236 #define __INTPTR_TYPE_ long int
00237 #define __INTPTR_WIDTH__ 64
00238 #define __INT_FAST16_FMTd__ "hd" 00239 #define __INT_FAST16_FMTi__ "hi"
00240 #define __INT_FAST16_MAX__ 32767
00241 #define __INT_FAST16_TYPE__ short
00242 #define __INT_FAST16_WIDTH__ 16
00243 #define __INT_FAST32_FMTd__ "d"
00244 #define __INT_FAST32_FMTi__ "i"
00245 #define __INT_FAST32_MAX__ 2147483647
00246 #define __INT_FAST32_TYPE_ int
00247 #define __INT_FAST32_WIDTH__ 32
00248 #define _INT_FAST64_FMTd__ "lld"
00249 #define _INT_FAST64_FMTi__ "lli"
00250 #define __INT_FAST64_MAX__ 9223372036854775807LL
00251 #define __INT_FAST64_TYPE_ long long int
00252 #define __INT_FAST64_WIDTH__ 64
00253 #define __INT_FAST8_FMTd__ "hhd"
00254 #define __INT_FAST8_FMTi__ "hhi"
00255 #define __INT_FAST8_MAX__ 127
00256 #define __INT_FAST8_TYPE_ signed char
00257 #define __INT_FAST8_WIDTH__ 8
00258 #define __INT_LEAST16_FMTd__ "hd'
00259 #define __INT_LEAST16_FMTi__ "hi"
00260 #define __INT_LEAST16_MAX__ 32767
00261 #define __INT_LEAST16_TYPE_ short
00262 #define __INT_LEAST16_WIDTH__ 16
00263 #define __INT_LEAST32_FMTd__
00264 #define __INT_LEAST32_FMTi__ "i"
00265 #define __INT_LEAST32_MAX__ 2147483647
00266 #define __INT_LEAST32_TYPE__ int
00267 #define __INT_LEAST32_WIDTH_ 32
00268 #define __INT_LEAST64_FMTd__ "lld"
00269 #define __INT_LEAST64_FMTi__ "lli"
00270 #define __INT_LEAST64_MAX__ 9223372036854775807LL
00271 #define __INT_LEAST64_TYPE__ long long int
00272 #define __INT_LEAST64_WIDTH__ 64
00273 #define __INT_LEAST8_FMTd__ "hhd"
00274 #define __INT_LEAST8_FMTi__ "hhi"
00275 #define __INT_LEAST8_MAX__ 127
00276 #define __INT_LEAST8_TYPE_ signed char
00277 #define __INT_LEAST8_WIDTH__ 8
00278 #define __INT_MAX__ 2147483647
00279 #define __INT_WIDTH__ 32
00280 #define __LDBL_DECIMAL_DIG__ 17
00281 #define _LDBL_DENORM_MIN__ 4.9406564584124654e-324L
00282 #define __LDBL_DIG__ 15
00283 #define _LDBL_EPSILON_ 2.2204460492503131e-16L
00284 #define __LDBL_HAS_DENORM__ 1
00285 #define _LDBL_HAS_INFINITY_ 1
00286 #define _LDBL_HAS_QUIET_NAN__ 1
00287 #define __LDBL_MANT_DIG__ 53
00288 #define __LDBL_MAX_10_EXP__ 308
00289 #define _LDBL_MAX_EXP_ 1024
00290 #define _LDBL_MAX_ 1.7976931348623157e+308L
```

```
00291 #define __LDBL_MIN_10_EXP__ (-307)
00292 #define _LDBL_MIN_EXP_. (-1021)
00293 #define _LDBL_MIN__ 2.2250738585072014e-308L
00294 #define __LDBL_NORM_MAX__ 1.7976931348623157e+308L
00295 #define __LITTLE_ENDIAN__ 1
00296 #define __LLONG_WIDTH__ 64
00297 #define _LONG_LONG_MAX_ 9223372036854775807LL
00298 #define __LONG_MAX__ 9223372036854775807L
00299 #define __LONG_WIDTH__ 64
00300 #define __LP64__ 1
00301 #define __MACH__ 1
00302 #define __MEMORY_SCOPE_DEVICE 1
00303 #define __MEMORY_SCOPE_SINGLE 4
00304 #define __MEMORY_SCOPE_SYSTEM 0
00305 #define __MEMORY_SCOPE_WRKGRP 2
00306 #define __MEMORY_SCOPE_WVFRNT 3
00307 #define _NO_INLINE_ 1
00308 #define __NO_MATH_ERRNO__ 1
00309 #define __OBJC_BOOL_IS_BOOL 1
00310 #define __OPENCL_MEMORY_SCOPE_ALL_SVM_DEVICES 3
00311 #define _OPENCL_MEMORY_SCOPE_DEVICE 2
00312 #define __OPENCL_MEMORY_SCOPE_SUB_GROUP 4
00313 #define __OPENCL_MEMORY_SCOPE_WORK_GROUP 1
00314 #define _OPENCL_MEMORY_SCOPE_WORK_ITEM 0
00315 #define __ORDER_BIG_ENDIAN__ 4321
00316 #define _ORDER_LITTLE_ENDIAN_ 1234
00317 #define __ORDER_PDP_ENDIAN__ 3412
00318 #define __PIC__ 2
00319 #define __POINTER_WIDTH__ 64
00320 #define __PRAGMA_REDEFINE_EXTNAME 1
00321 #define __PTRDIFF_FMTd__ "ld"
00322 #define __PTRDIFF_FMTi__ "li"
00323 #define __PTRDIFF_MAX__ 9223372036854775807L
00324 #define __PTRDIFF_TYPE_ long int
00325 #define __PTRDIFF_WIDTH__ 64
00326 #define __REGISTER_PREFIX__
00327 #define __SCHAR_MAX__ 127
00328 #define __SHRT_MAX__ 32767
00329 #define __SHRT_WIDTH__ 16
00330 #define __SIG_ATOMIC_MAX__ 2147483647
00331 #define __SIG_ATOMIC_WIDTH__ 32
00332 #define __SIZEOF_DOUBLE__ 8
00333 #define __SIZEOF_FLOAT__ 4
00334 #define __SIZEOF_INT128__ 16
00335 #define __SIZEOF_INT__ 4
00336 #define __SIZEOF_LONG_DOUBLE__ 8
00337 #define __SIZEOF_LONG_LONG__ 8
00338 #define __SIZEOF_LONG__ 8
00339 #define __SIZEOF_POINTER__ 8
00340 #define __SIZEOF_PTRDIFF_T__ 8
00341 #define __SIZEOF_SHORT__ 2
00342 #define __SIZEOF_SIZE_T__ 8
00343 #define __SIZEOF_WCHAR_T__ 4
00344 #define _SIZEOF_WINT_T_ 4
00345 #define _SIZE_FMTX_ "lX"
00346 #define _SIZE_FMTO_ "lo"
00347 #define __SIZE_FMTu__ "lu"
00348 #define __SIZE_FMTx__ "lx"
00349 #define __SIZE_MAX__ 18446744073709551615UL
00350 #define __SIZE_TYPE_ long unsigned int
00351 #define __SIZE_WIDTH__ 64
00352 #define __SSP__ 1
00353 #define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16UL
00354 #define __STDCPP_THREADS__ 1
00355 #define __STDC_EMBED_EMPTY__ 2
00356 #define __STDC_EMBED_FOUND__ 1
00357 #define _STDC_EMBED_NOT_FOUND__ 0
00358 #define __STDC_HOSTED__ 1
00359 #define __STDC_NO_THREADS__ 1
00360 #define __STDC_UTF_16__ 1
00361 #define __STDC_UTF_32__
00362 #define __STDC__ 1
00363 #define __UINT16_C_SUFFIX_
00364 #define __UINT16_FMTX__ "hX"
00365 #define __UINT16_FMTO__ "ho"
00366 #define __UINT16_FMTu__ "hu"
00367 #define __UINT16_FMTx__ "hx"
00368 #define __UINT16_MAX__ 65535
00369 #define _UINT16_TYPE__ unsigned short
00370 #define _UINT32_C_SUFFIX__ U
00371 #define _UINT32_FMTX__ "X"
00372 #define __UINT32_FMTo__ "o"
00373 #define __UINT32_FMTu__ "u"
00374 #define __UINT32_FMTx__ "x"
00375 #define __UINT32_MAX__ 4294967295U
00376 #define __UINT32_TYPE_ unsigned int
00377 #define __UINT64_C_SUFFIX__ ULL
```

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```
00378 #define __UINT64_FMTX__ "11X"
00379 #define __UINT64_FMTo__ "llo"
00380 #define __UINT64_FMTu__ "llu"
00381 #define __UINT64_FMTx__ "llx"
00382 #define __UINT64_MAX__ 18446744073709551615ULL 00383 #define __UINT64_TYPE__ long long unsigned int
00384 #define __UINT8_C_SUFFIX__
00385 #define _UINT8.FMTX_ "hhx"
00386 #define _UINT8.FMT0_ "hho"
00387 #define _UINT8.FMT0_ "hhu"
00388 #define _UINT8.FMTx_ "hhx"
00389 #define __UINT8_MAX__ 255
00390 #define __UINT8_TYPE__ unsigned char
00391 #define __UINTMAX_C_SUFFIX__ UL
00392 #define __UINTMAX_FMTX__ "lX"
00393 #define __UINTMAX.FMTo__ "lo"
00394 #define __UINTMAX.FMTu__ "lu"
00395 #define __UINTMAX.FMTx__ "lx"
00396 #define __UINTMAX_MAX__ 18446744073709551615UL
00397 #define __UINTMAX_TYPE__ long unsigned int
00398 #define __UINTMAX_WIDTH__ 64
00399 #define __UINTPTR_FMTX__ "1X"
00400 #define __UINTPTR_FMTO__ "10"
00401 #define __UINTPTR_FMTu__ "1u"
00402 #define __UINTPTR_FMTx__ "1x"
00403 #define __UINTPTR_MAX__ 18446744073709551615UL
00404 #define __UINTPTR_TYPE__ long unsigned int
00405 #define __UINTPTR_WIDTH__ 64
00406 #define __UINT_FAST16_FMTX__ "hX"
00407 #define __UINT_FAST16_FMTo__ "ho"
00408 #define _UINT_FAST16_FMTu__ "hu"
00409 #define __UINT_FAST16_FMTx__ "hx"
00410 #define __UINT_FAST16_MAX__ 65535
00411 #define __UINT_FAST16_TYPE_ unsigned short
00412 #define __UINT_FAST32_FMTX__ "X" 00413 #define __UINT_FAST32_FMTo__ "o"
00414 #define __UINT_FAST32_FMTu__ "u"
00415 #define __UINT_FAST32_FMTx__ "x"
00416 #define __UINT_FAST32_MAX__ 4294967295U
00417 #define __UINT_FAST32_TYPE_ unsigned int
00418 #define __UINT_FAST64_FMTX__ "llx"

00419 #define __UINT_FAST64_FMT0__ "llo"

00420 #define __UINT_FAST64_FMTu__ "llu"

00421 #define __UINT_FAST64_FMTx__ "llx"
00422 #define __UINT_FAST64_MAX__ 18446744073709551615ULL
00423 #define __UINT_FAST64_TYPE__ long long unsigned int
00424 #define __UINT_FAST8_FMTX__ "hhX"
00425 #define _UINT_FAST8_FMTo_ "hho"
00426 #define __UINT_FAST8_FMTu__ "hhu'
00427 #define __UINT_FAST8_FMTx__ "hhx"
00428 #define __UINT_FAST8_MAX__ 255
00429 #define __UINT_FAST8_TYPE_ unsigned char
00430 #define __UINT_LEAST16_FMTX__ "hX"
00431 #define __UINT_LEAST16_FMTo__ "ho"
00432 #define __UINT_LEAST16_FMTu__ "hu"
00433 #define __UINT_LEAST16_FMTx__ "hx"
00434 #define __UINT_LEAST16_MAX__ 65535
00435 #define __UINT_LEAST16_TYPE_ unsigned short
00436 #define _UINT_LEAST32_FMTX_ "X" 00437 #define _UINT_LEAST32_FMTO_ "o"
00438 #define __UINT_LEAST32_FMTu__ "u"
00439 #define _UINT_LEAST32_FMTx_ "x"
00440 #define __UINT_LEAST32_MAX__ 4294967295U
00441 #define __UINT_LEAST32_TYPE_ unsigned int
00442 #define __UINT_LEAST64_FMTX__ "11X"
00443 #define __UINT_LEAST64_FMT0__ "11o"
00444 #define __UINT_LEAST64_FMTu__ "11u"
00445 #define __UINT_LEAST64_FMTx__ "11x"
00446 #define __UINT_LEAST64_MAX__ 18446744073709551615ULL
00447 #define __UINT_LEAST64_TYPE__ long long unsigned int 00448 #define __UINT_LEAST8_FMTX__ "hhx" 00449 #define __UINT_LEAST8_FMTO__ "hho"
00450 #define __UINT_LEAST8_FMTu__ "hhu"
00451 #define __UINT_LEAST8_FMTx__ "hhx"
00452 #define __UINT_LEAST8_MAX__ 255
00453 #define __UINT_LEAST8_TYPE__ unsigned char
00454 #define _USER_LABEL_PREFIX__ _
00455 #define __VERSION__ "Apple LLVM 17.0.0 (clang-1700.0.13.3)"
00456 #define __WCHAR_MAX__ 2147483647
00457 #define __WCHAR_TYPE__ int
00458 #define __WCHAR_WIDTH__ 32
00459 #define __WINT_MAX__ 2147483647
00460 #define __WINT_TYPE__ int
00461 #define __WINT_WIDTH__ 32
00462 #define __aarch64__ 1
00463 #define _apple_build_version_ 17000013
00464 #define _arm64 1
```

```
00465 #define __arm64__ 1
00466 #define _block _attribute_((_blocks_(byref)))
00467 #define __clang__ 1
00468 #define __clang_literal_encoding__ "UTF-8"
00469 #define __clang_major__ 17
00470 #define __clang_minor__ 0
00471 #define __clang_patchlevel__ 0
00472 #define __clang_version__ "17.0.0 (clang-1700.0.13.3)"
00473 #define __clang_wide_literal_encoding_ "UTF-32"
00474 #define _cplusplus 201703L
00475 #define __cpp_aggregate_bases 201603L
00476 #define --cpp-aggregate-nsdmi 201304L
00477 #define __cpp_alias_templates 200704L
00478 #define _cpp_aligned_new 201606L
00479 #define __cpp_attributes 200809L
00480 #define _cpp_binary_literals 201304L
00481 #define _cpp_capture_star_this 201603L
00482 #define _cpp_constexpr 201603L
00483 #define _cpp_constexpr_in_decltype 201711L
00484 #define __cpp_decltype 200707L
00485 #define _cpp_decltype_auto 201304L
00486 #define _cpp_deduction_guides 201703L
{\tt 00487~\#define~\_cpp\_delegating\_constructors~200604L}
00488 #define _cpp_deleted_function 202403L
00489 #define _cpp_digit_separators 201309L
00490 #define _cpp_enumerator_attributes 201411L
00491 #define __cpp_exceptions 199711L
00492 #define _cpp_fold_expressions 201603L
00493 #define _cpp_generic_lambdas 201304L
00494 #define _cpp_guaranteed_copy_elision 201606L
00495 #define _cpp_hex_float 201603L
00496 #define _cpp_if_constexpr 201606L
00497 #define _cpp_impl_destroying_delete 201806L
00498 #define _cpp_inheriting_constructors 201511L
00499 #define _cpp_init_captures 201304L
00500 #define _cpp_initializer_lists 200806L
00501 #define _cpp_inline_variables 201606L
00502 #define _cpp_lambdas 200907L
00503 #define _cpp_named_character_escapes 202207L
00504 #define _cpp_namespace_attributes 201411L
00505 #define _cpp_nested_namespace_definitions 201411L
00506 #define _cpp_noexcept_function_type 201510L
00507 #define _cpp_nontype_template_args 201411L
00508 #define _cpp_nontype_template_parameter_auto 201606L
00509 #define __cpp_nsdmi 200809L
00510 #define _cpp_pack_indexing 202311L
00511 #define __cpp_placeholder_variables 202306L
00512 #define _cpp_range_based_for 201603L
00513 #define _cpp_raw_strings 200710L
00514 #define --cpp-ref-qualifiers 200710L
00515 #define _cpp_return_type_deduction 201304L
00516 #define __cpp_rtti 199711L
00517 #define __cpp_rvalue_references 200610L
00518 #define _-cpp_static_assert 201411L
00519 #define _cpp_static_call_operator 202207L
00520 #define _cpp_structured_bindings 202403L
00521 #define _cpp_template_auto 201606L
00522 #define _cpp_template_template_args 201611L
00523 #define _cpp_threadsafe_static_init 200806L
00524 #define _cpp_unicode_characters 200704L
00525 #define __cpp_unicode_literals 200710L
00526 #define _cpp_user_defined_literals 200809L
00527 #define _cpp_variable_templates 201304L
00528 #define _cpp_variadic_templates 200704L
00529 #define __cpp_variadic_using 201611L
00530 #define __llvm__ 1
00531 #define _nonnull _Nonnull
00532 #define _null_unspecified _Null_unspecified
00533 #define --nullable -Nullable
00534 #define __pic__ 2
00535 #define __private_extern_ extern
00536 #define __strong
00537 #define __unsafe_unretained
00538 #define __weak __attribute__((objc_gc(weak)))
```

9.49 build/NetScanner_autogen/mocs_compilation.cpp 文件参考

```
#include "EWIEGA46WW/moc_deviceanalyzer.cpp"
#include "EWIEGA46WW/moc_mainwindow.cpp"
#include "EWIEGA46WW/moc_networkscanner.cpp"
```

```
#include "EWIEGA46WW/moc_networktopology.cpp" #include "EWIEGA46WW/moc_scanhistory.cpp" mocs_compilation.cpp 的引用(Include)关系图:
```



9.50 NetScanner_autogen/mocs_compilation.cpp 文件参考

```
#include "JRIAJ772TK/moc_deviceanalyzer.cpp"
#include "JRIAJ772TK/moc_mainwindow.cpp"
#include "JRIAJ772TK/moc_networkscanner.cpp"
#include "JRIAJ772TK/moc_networktopology.cpp"
#include "JRIAJ772TK/moc_scanhistory.cpp"
#include "EWIEGA46WW/moc_deviceanalyzer.cpp"
#include "EWIEGA46WW/moc_mainwindow.cpp"
mocs_compilation.cpp 的引用(Include)关系图:
```



9.51 deviceanalyzer.cpp 文件参考

```
#include "deviceanalyzer.h"
#include <QVBoxLayout>
#include <QHBoxLayout>
#include <QLabel>
#include <QPushButton>
#include <QGroupBox>
#include <QMap>
#include <QDebug>
#include <QDebug>
#include <QApplication>
#include <algorithm>
deviceanalyzer.cpp 的引用(Include)关系图:
```



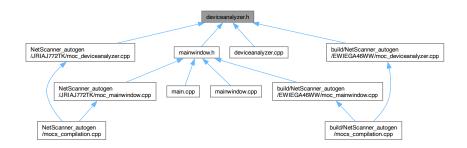
9.52 deviceanalyzer.h 文件参考

```
#include <QWidget>
#include <QMap>
#include <QVector>
#include <QPair>
#include <QString>
#include <QtCharts/QChart>
#include <QtCharts/QPieSeries>
#include <QtCharts/QBarSeries>
#include <QtCharts/QBarSeries>
#include <QtCharts/QBarCategoryAxis>
#include <QtCharts/QValueAxis>
#include <QtCharts/QChartView>
#include "networkscanner.h"

deviceanalyzer.h 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

class DeviceAnalyzer

9.53 deviceanalyzer.h

浏览该文件的文档.

```
00001 #ifndef DEVICEANALYZER_H
00002 #define DEVICEANALYZER_H
00003
00004 #include <QWidget>
00005 #include <QVector>
00007 #include <QVector>
00007 #include <QVector>
00008 #include <Qtcharts/QChart>
00010 #include <QtCharts/QPieSeries>
00011 #include <QtCharts/QBarSeries>
00012 #include <QtCharts/QBarSeries>
```

```
00013 #include <QtCharts/QBarCategoryAxis>
00014 #include <QtCharts/QValueAxis>
00015 #include <QtCharts/QChartView>
00016 #include "networkscanner.h"
00017
00018 // 设备分析器类 - 提供对扫描结果的统计分析
00019 class DeviceAnalyzer : public QWidget
00020 {
00021
           O_OBJECT
00022
00023 public:
00024
           DeviceAnalyzer(QWidget *parent = nullptr);
00025
00026
           // 分析扫描结果并更新统计图表
00027
           void analyzeHosts(const QList<HostInfo> &hosts);
00028
           void clear();
00029
           // 获取各种统计信息
00030
00031
           int getTotalHostsCount() const { return m_totalHosts; }
           int getReachableHostsCount() const { return m_reachableHosts; }
int getUnreachableHostsCount() const { return m_totalHosts - m_reachableHosts; }
00032
00033
00034
           // 获取各种图表
00035
00036
           QChart* getDeviceTypeChart() const { return m_deviceTypeChart; }
QChart* getPortDistributionChart() const { return m_portDistributionChart; }
QChart* getVendorDistributionChart() const { return m_vendorDistributionChart; }
00037
00038
00039
            // 创建安全风险报告
00040
00041
           QString generateSecurityReport(const QList<HostInfo> &hosts);
00042
00043 signals:
00044
           void analysisCompleted();
00045
00046 private:
           // 扫描统计
00047
           int m_totalHosts;
00048
00049
           int m_reachableHosts;
00050
00051
            // 设备类型分布图表
00052
           QChart *m_deviceTypeChart;
00053
           QPieSeries *m_deviceTypeSeries;
00054
           // 端口分布图表
00055
00056
           QChart *m_portDistributionChart;
00057
           QBarSeries *m_portSeries;
00058
00059
           // 厂商分布图表
00060
           QChart *m_vendorDistributionChart;
00061
           OPieSeries *m_vendorSeries:
00062
00063
           // 创建各类图表
00064
           void createDeviceTypeChart();
00065
           void createPortDistributionChart();
00066
           void createVendorDistributionChart();
00067
00068
            // 设备类型判断
00069
           QString determineDeviceType(const HostInfo &host);
00070 };
00071
00072 #endif // DEVICEANALYZER_H
```

9.54 main.cpp 文件参考

```
#include "mainwindow.h"
#include <QApplication>
#include <QFontDatabase>
#include <QSplashScreen>
#include <QPixmap>
#include <QTimer>
#include <QFont>
#include <QStyleFactory>
main.cpp 的引用(Include)关系图:
```



函数

• int main (int argc, char *argv[])

9.54.1 函数说明

9.54.1.1 main()

```
int main (
          int argc,
          char * argv[])
```

9.55 mainwindow.cpp 文件参考

```
#include "mainwindow.h"
#include <QColor>
#include <QDateTime>
#include <QStandardPaths>
#include <QTimer>
#include <QPalette>
#include <QPixmap>
#include <QPainter>
#include <QPainter>
#include <QStyleFactory>
#include <QStyleFactory>
#include <QCalendarWidget>
#include <QCalendarWidget>
#include <QCTimeEdit>
mainwindow.cpp 的引用(Include)关系图:
```



9.56 mainwindow.h 文件参考

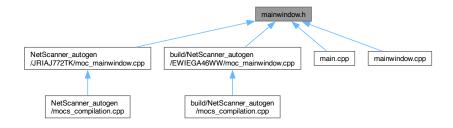
```
#include <QMainWindow>
#include <QTableWidget>
#include <QPushButton>
#include <QProgressBar>
#include <QLabel>
#include <QVBoxLayout>
#include <QHBoxLayout>
#include <QCHBoxLayout>
#include <QCHBoxLayout>
#include <QCHBoxLayout>
#include <QCOMBORDOX>
```

9.57 mainwindow.h

```
#include <QFileDialog>
#include <QAction>
#include <QMenu>
#include <QMenuBar>
#include <QTabWidget>
#include <QTextEdit>
#include <QSettings>
#include <QSplitter>
#include <QStyledItemDelegate>
#include <QApplication>
#include <QtCharts/QChartView>
#include <QtCharts/QChart>
#include <QGraphicsView>
#include <QGraphicsScene>
#include "networkscanner.h"
#include "networktopology.h"
#include "deviceanalyzer.h"
#include "scanhistory.h"
mainwindow.h 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

• class MainWindow

9.57 mainwindow.h

浏览该文件的文档.

```
00001 #ifndef MAINWINDOW_H
00002 #define MAINWINDOW_H
00003
00004 #include <QMainWindow>
00005 #include <QTableWidget>
00006 #include <QPushButton>
00007 #include <QProgressBar>
00008 #include <QLabel>
00009 #include <QVBoxLayout>
00010 #include <QHBoxLayout>
00011 #include <QStatusBar>
00012 #include <QHeaderView>
```

```
00013 #include <QMessageBox>
00014 #include <QLineEdit>
00015 #include <QComboBox>
00016 #include <OSpinBox>
00017 #include <OCheckBox>
00018 #include <QGroupBox>
00019 #include <QFileDialog>
00020 #include <QAction>
00021 #include <QMenu>
00022 #include <OMenuBar>
00023 #include <QTabWidget>
00024 #include <OTextEdit>
00025 #include <QSettings>
00026 #include <QSplitter>
00027 #include <QStyledItemDelegate>
00028 #include <QApplication>
00029 #include <OtCharts/OChartView>
00030 #include <QtCharts/QChart>
00031 #include <QGraphicsView>
00032 #include <QGraphicsScene>
00033
00034 #include "networkscanner.h"
00035 #include "networktopology.h"
00036 #include "deviceanalyzer.h"
00037 #include "scanhistory.h"
00038
00039 // QtCharts命名空间已经在deviceanalyzer.h中引入
00040 // using namespace QtCharts;
00041
00042 class MainWindow : public QMainWindow
00043 {
00044
          Q_OBJECT
00045
00046 public:
00047
          MainWindow(QWidget *parent = nullptr);
00048
          ~MainWindow();
00049
00050 private slots:
00051
         void startScan();
00052
          void stopScan();
00053
          void onHostFound(const HostInfo &host);
          void onScanStarted();
00054
00055
         void onScanFinished():
00056
          void onScanProgress(int progress);
00057
          void onScanError(const QString &errorMessage);
00058
00059
          // 现有功能槽
00060
         void saveResults();
00061
          void clearResults();
00062
          void showSettings();
00063
          void applySettings();
00064
          void showAbout();
00065
          void showHostDetails(int row, int column);
00066
          void exportToCSV();
          void togglePortScanOptions(bool checked);
00067
00068
          void toggleRangeOptions(bool checked);
00070
          // 新增功能槽
00071
          void showTopologyView();
00072
          void showStatisticsView();
          void showHistoryView();
00073
00074
          void generateSecurityReport();
00075
          void saveTopologyImage();
00076
          void toggleDarkMode(bool enable);
00077
          void compareScanResults();
00078
          void scheduleScan();
          void saveHistoryToFile();
00079
08000
          void loadHistoryFromFile();
          void updateNetworkTopology();
00081
00082
          void refreshTopology();
00083
          void filterResults();
00084
         void clearFilters();
00085
         void onThemeChanged();
00086
00087 private:
00088
          void createUI();
00089
          void createMenus();
00090
          void createSettingsDialog();
00091
          void createTopologyTab();
00092
          void createStatisticsTab():
00093
          void createHistoryTab();
00094
          void createDetailsTab();
00095
          void createSecurityTab();
00096
          void setupConnections();
00097
          void updatePortsList();
00098
         void loadSettings();
00099
          void saveSettings();
```

9.57 mainwindow.h

```
void updateStatistics();
00101
          void applyTheme(bool darkMode);
00102
          // UT元素
00103
00104
          OWidget *m_centralWidget;
00105
          QTabWidget *m_tabWidget;
00106
00107
          // 扫描结果标签页
00108
          QWidget *m_scanTab;
00109
          QVBoxLayout *m_mainLayout;
00110
          QHBoxLayout *m_controlLayout;
          QTableWidget *m_resultsTable;
00111
          QPushButton *m_scanButton;
00112
00113
          QPushButton *m_stopButton;
00114
          QPushButton *m_clearButton;
00115
          QPushButton *m_saveButton;
          QProgressBar *m_progressBar;
00116
          QLabel *m_statusLabel;
00117
          QStatusBar *m_statusBar;
00119
00120
          // 扫描设置标签页
00121
          QWidget *m_settingsTab;
          QVBoxLayout *m_settingsLayout;
00122
00123
00124
          // 端口设置区域
00125
          QGroupBox *m_portsGroupBox;
00126
          QCheckBox *m_customPortsCheckBox;
00127
          QLineEdit *m_portsLineEdit;
00128
          QSpinBox *m_timeoutSpinBox;
00129
00130
          // IP范围设置区域
00131
          QGroupBox *m_rangeGroupBox;
00132
          QCheckBox *m_customRangeCheckBox;
00133
          QLineEdit *m_startIPLineEdit;
00134
          QLineEdit *m_endIPLineEdit;
00135
00136
          // 主机详情标签页
          QWidget *m_detailsTab;
00138
          QVBoxLayout *m_detailsLayout;
00139
          QTextEdit *m_detailsTextEdit;
00140
          // 网络拓扑标签页
00141
00142
          QWidget *m_topologyTab;
          NetworkTopology *m_networkTopology;
00143
00144
00145
          // 统计分析标签页
00146
          QWidget *m_statisticsTab;
00147
          DeviceAnalyzer *m_deviceAnalyzer;
          QChartView *m_deviceTypeChartView;
QChartView *m_vendorChartView;
00148
00149
          QChartView *m_portDistributionChartView;
00150
00151
          QTextEdit *m_securityReportText;
00152
00153
          // 扫描历史标签页
00154
          QWidget *m_historyTab;
          ScanHistory *m_scanHistory;
00155
          QComboBox *m_sessionComboBox;
00157
          QTableWidget *m_historyTable;
00158
          // 菜单项
00159
          QMenu *m_fileMenu;
00160
00161
          OMenu *m_viewMenu;
00162
          QMenu *m_toolsMenu;
00163
          QMenu *m_helpMenu;
00164
          QAction *m_exportAction;
00165
          QAction *m_saveHistoryAction;
00166
          QAction *m_loadHistoryAction;
          QAction *m_saveTopologyAction;
00167
          QAction *m_exitAction;
00168
          QAction *m_settingsAction;
00169
00170
          QAction *m_darkModeAction;
00171
          QAction *m_scheduleScanAction;
00172
          QAction *m_aboutAction;
00173
00174
          // 过滤控件
00175
          QWidget *m_filterWidget;
00176
          QLineEdit *m_filterIPLineEdit;
00177
          QComboBox *m_filterVendorComboBox;
00178
          QComboBox *m_filterTypeComboBox;
          QPushButton *m_filterButton;
QPushButton *m_clearFilterButton;
00179
00180
00181
00182
          // 网络扫描器
00183
          NetworkScanner *m_scanner;
00184
          // 扫描的主机数量
00185
00186
          int m_hostsFound:
```

9.58 networkscanner.cpp 文件参考

网络扫描器类的实现

```
#include "networkscanner.h"
#include <ODebug>
#include <QTime>
#include <QTimer>
#include <QMutexLocker>
#include <QProcess>
#include <QFile>
#include <QTextStream>
#include <QCoreApplication>
#include <QDir>
#include <QRegularExpression>
#include <QNetworkInterface>
#include <QThread>
#include <QEventLoop>
#include <QElapsedTimer>
#include <QMessageBox>
networkscanner.cpp 的引用(Include)关系图:
```



9.58.1 详细描述

网络扫描器类的实现

提供网络设备发现和端口扫描功能的实现

作者

Network Scanner Team

版本

2.1.0

9.59 networkscanner.h 文件参考

网络扫描器类定义

```
#include <QObject>
#include <QHostAddress>
#include <QList>
#include <QMap>
#include <QMutex>
#include <QTcpSocket>
#include <QDateTime>
#include <QNetworkInterface>
#include <QFuture>
#include <QtConcurrent/QtConcurrent>
#include <QHostInfo>
#include <QThreadPool>
#include <QRunnable>
networkscanner.h 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

struct HostInfo

存储主机信息的结构体

· class ScanStrategy

扫描策略类

class ScanTask

扫描任务类

class NetworkScanner

网络扫描器类

9.59.1 详细描述

网络扫描器类定义

提供网络设备发现和端口扫描功能

作者

Network Scanner Team

版本

2.1.0

9.60 networkscanner.h

浏览该文件的文档.

```
00001 //
00002 // networkscanner.h
00003 //
00004
00012
00013 #ifndef NETWORKSCANNER_H
00014 #define NETWORKSCANNER_H
00015
00016 #include <QObject>
00017 #include <QHostAddress>
00018 #include <QList>
00019 #include <QMap>
00020 #include <QMutex>
00021 #include <QTcpSocket>
00022 #include <QDateTime>
00023 #include <QNetworkInterface>
00024 #include <QFuture>
00025 #include <QtConcurrent/QtConcurrent>
00026 #include <QHostInfo>
00027 #include <OThreadPool>
00028 #include <QRunnable>
00029
00035 struct HostInfo {
00036
        QString ipAddress;
00037
         QString hostName;
00038
         QString macAddress;
         QString macVendor;
00039
00040
         bool isReachable;
00041
          QDateTime scanTime;
00042
          QMap<int, bool> openPorts;
00043 };
00044
00050 class ScanStrategy {
00051 public:
00056
         enum ScanMode {
00057
              QUICK_SCAN,
00058
              STANDARD_SCAN.
00059
              DEEP_SCAN
00060
00061
00066
          ScanStrategy(ScanMode mode = STANDARD_SCAN);
00067
00072
         QList<int> getPortsToScan() const;
00073
00079
          int getScanTimeout(const QString &ip) const;
08000
00085
          int getMaxParallelTasks() const;
00086
00092
         void updateHostResponseTime(const QString &ip, int responseTime);
00093
00098
         ScanMode getMode() const { return m_mode; }
00099
00104
          void setMode(ScanMode mode) { m_mode = mode; }
00105
00106 private:
00107
          ScanMode m_mode:
00108
         QMap<QString, int> m_hostResponseTimes;
00109 };
00110
00116 class ScanTask : public QRunnable {
00117 public:
         00125
00126
00127
00132
         void run() override;
00133
```

9.60 networkscanner.h 319

```
00134
          QObject* m_parent;
00135
          QHostAddress m_address;
00136
          QList<int> m_ports;
00137
          int m_timeout;
00138 };
00139
00145 class NetworkScanner : public QObject
00146 {
00147
          O_OBJECT
00148
00149 public:
00154
          NetworkScanner(QObject *parent = nullptr);
00155
00159
          ~NetworkScanner();
00160
00165
          void setCustomPortsToScan(const QList<int> &ports);
00166
00171
          void setScanTimeout(int msecs);
00172
00178
          void setCustomIPRange(const QString &startIP, const QString &endIP);
00179
00184
          void setScanStrategy(ScanStrategy::ScanMode mode);
00185
00190
          OList<HostInfo> getScannedHosts() const;
00191
00196
          void saveResultsToFile(const QString &filename) const;
00197
00201
          void startScan();
00202
00206
          void stopScan();
00207
00212
          bool isScanning() const;
00213
00219
          QList<QHostAddress> quickPingScan(const QList<QHostAddress> &addresses);
00220
00227
          bool isHostReachable(const QHostAddress &address, int timeout);
00228
00236
          bool isReachableOnPorts(const QHostAddress &address, const QList<int> &ports, int timeout);
00237
00242
          void scanHost(const QHostAddress &address);
00243
00249
          OString lookupHostName(const OHostAddress &address);
00250
00256
          QString lookupMacAddress(const QHostAddress &address);
00257
00263
          QString lookupMacVendor(const QString &macAddress);
00264
00270
          QString generatePseudoMACFromIP(const QString &ip);
00271
00272 signals:
00277
          void hostFound(const HostInfo &host);
00278
00282
          void scanStarted();
00283
00287
          void scanFinished();
00288
00293
          void scanProgress(int progress);
00294
00299
          void scanError(const QString &errorMessage);
00300
00301 public slots:
00306
          void onScanTaskFinished(const HostInfo &hostInfo);
00307
00311
          void updateScanProgress();
00312
00317
          void onHostNameLookedUp(const QHostInfo &hostInfo);
00318
00319 private:
00324
          QList<QHostAddress> getLocalNetworkAddresses();
00325
00331
          QString normalizeMacAddress(const QString &macAddress);
00332
00339
          bool pingTargetWithTimeout(const QString &ip, int timeout);
00340
00346
          OString getMacAddressFromSystemCalls(const OString &ip);
00347
00352
          QList<QPair<QHostAddress, QString>> performARPScan();
00353
00358
          void scanHostPorts(HostInfo &hostInfo);
00359
          QList<QHostAddress> getAddressesToScan();
00364
00365
00369
          void processScanResults();
00370
00371
          bool m_isScanning;
00372
00373
          int m_scannedHosts:
```

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```
int m_totalHosts;
00375
          int m_scanTimeout;
00376
00377
          bool m_useCustomRange;
          QHostAddress m_startIPRange;
00378
00379
          QHostAddress m_endIPRange;
00380
00381
          QList<int> m_portsToScan;
00382
00383
          QList<HostInfo> m_scannedHostsList;
00384
          QMutex m_mutex;
00385
00386
          QList<QFuture<void>> m_scanFutures;
00387
          QThreadPool m_threadPool;
00388
00389
          QMap<QString, QString> m_macAddressCache;
00390
00391
          ScanStrategy m_scanStrategy;
00392
00393
          QList<QHostAddress> m_activeHosts;
00394
00405
          static bool executeProcess(const QString &program, const QStringList &args, QString &stdOutOutput,
      QString &stdErrOutput, int startTimeout = 2000, int finishTimeout = 5000);
00406 };
00407
00408 #endif // NETWORKSCANNER_H
```

9.61 networktopology.cpp 文件参考

```
#include "networktopology.h"
#include <QPainter>
#include <QGraphicsSceneMouseEvent>
#include <QStyleOptionGraphicsItem>
#include <QVBoxLayout>
#include <QHBoxLayout>
#include <QLabel>
#include <QPushButton>
#include <QComboBox>
#include <QApplication>
#include <QPalette>
#include <QDebug>
#include <QtMath>
#include <QGraphicsItemAnimation>
#include <QTimeLine>
#include <QToolTip>
#include <QScrollBar>
#include <QProcess>
#include <QRegularExpression>
networktopology.cpp 的引用(Include)关系图:
```



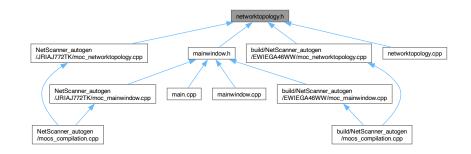
9.62 networktopology.h 文件参考

```
#include <QWidget>
#include <QGraphicsView>
#include <QGraphicsScene>
#include <QGraphicsItem>
```

```
#include <QMap>
#include <QPair>
#include <QProcess>
#include "networkscanner.h"
networktopology.h 的引用(Include)关系图:
```



此图展示该文件被哪些文件直接或间接地引用了:



类

- class TopologyAnalyzer
- class DeviceNode
- · class ConnectionLine
- class NetworkTopologyView
- class NetworkTopology

枚举

- enum DeviceType {
 DEVICE_UNKNOWN, DEVICE_ROUTER, DEVICE_SERVER, DEVICE_PC,
 DEVICE_MOBILE, DEVICE_PRINTER, DEVICE_IOT }
- enum ConnectionType {
 CONNECTION_UNKNOWN, CONNECTION_DIRECT, CONNECTION_WIRELESS, CONNECTION_VPN,
 CONNECTION_ROUTED }

9.62.1 枚举类型说明

9.62.1.1 ConnectionType

enum ConnectionType

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枚举值

CONNECTION_UNKNOWN	
CONNECTION_DIRECT	
CONNECTION_WIRELESS	
CONNECTION_VPN	
CONNECTION_ROUTED	

9.62.1.2 DeviceType

enum DeviceType

枚举值

DEVICE_UNKNOWN	
DEVICE_ROUTER	
DEVICE_SERVER	
DEVICE_PC	
DEVICE_MOBILE	
DEVICE_PRINTER	
DEVICE_IOT	

9.63 networktopology.h

浏览该文件的文档.

```
00001 #ifndef NETWORKTOPOLOGY_H
00002 #define NETWORKTOPOLOGY_H
00003
00004 #include <QWidget>
00005 #include <QGraphicsView>
00006 #include <QGraphicsScene>
00007 #include <QGraphicsItem>
00008 #include <QMap>
00009 #include <QPair>
00010 #include <QProcess>
00011 #include "networkscanner.h"
00012
00013 // 定义设备类型枚举
00014 enum DeviceType {
00015 DEVICE_UNKNOWN,
00016
           DEVICE_ROUTER,
00017
           DEVICE_SERVER,
00018
           DEVICE_PC,
00019
           DEVICE_MOBILE,
00020
           DEVICE_PRINTER,
00021
           DEVICE_IOT
00023
00024 // 设备连接类型
00025 enum ConnectionType {
00026 CONNECTION_UNKNOWN,
                                     // 直接连接
// 无线连接
// VPN连接
// 通过路由器连接
           CONNECTION_DIRECT,
CONNECTION_WIRELESS,
00027
00028
00029
           CONNECTION_VPN,
00030
           CONNECTION_ROUTED
00031 };
00032
00033 // 拓扑分析器类
00034 class TopologyAnalyzer {
00035 public:
00036
           TopologyAnalyzer();
00037
```

```
00038
           // 推断设备连接关系
00039
          QMap<QString, QStringList> inferDeviceConnections(const QList<HostInfo> &hosts);
00040
          // 分析网络层次结构
00041
00042
          QMap<int, QStringList> analyzeTTLLayers(const QList<HostInfo> &hosts);
00043
           // 分析子网结构
00044
00045
          QMap<QString, QStringList> analyzeSubnets(const QList<HostInfo> &hosts);
00046
          // 基于响应时间的设备聚类
00047
00048
         QList<QStringList> clusterDevicesByResponseTime(const QList<HostInfo> &hosts);
00049
00050
          // 获取特定IP的TTL值
00051
          int getTTLValue(const QString &ipAddress);
00052
00053
          // 执行traceroute命令获取路径信息
00054
         QStringList performTraceRoute(const QString &targetIP);
00055
00056
          // 计算子网掩码 - 改为公共方法
00057
         QString calculateSubnet(const QString &ip, int prefixLength = 24);
00058
          // 判断两个IP是否在同一子网
00059
00060
         bool inSameSubnet (const QString &ip1, const QString &ip2, int prefixLength = 24);
00061
00062 private:
         // 已移除private中的calculateSubnet声明
00063
00064 };
00065
00066 // 设备节点
00067 class DeviceNode : public QGraphicsItem
00068 {
00069 public:
00070
         DeviceNode(const HostInfo &host, DeviceType type = DEVICE_UNKNOWN);
00071
00072
          QRectF boundingRect() const override;
00073
          void paint(QPainter *painter, const QStyleOptionGraphicsItem *option, QWidget *widget) override;
00074
00075
          void setDeviceType(DeviceType type);
00076
         DeviceType deviceType() const { return m_type; }
00077
         QString ipAddress() const { return m.host.ipAddress; }
HostInfo hostInfo() const { return m.host; }
00078
00079
00080
         void setPosition(const OPointF &pos);
00081
          // 新增: 设置网络层级
00082
00083
          void setNetworkLayer(int layer) { m_networkLayer = layer; }
00084
         int networkLayer() const { return m_networkLayer; }
00085
00086
          // 新增: 设置子网组
          void setSubnetGroup(const QString &subnet) { m_subnetGroup = subnet; }
00087
00088
         QString subnetGroup() const { return m_subnetGroup; }
00089
00090 protected:
00091
         void mousePressEvent(QGraphicsSceneMouseEvent *event) override;
00092
          void mouseMoveEvent (QGraphicsSceneMouseEvent *event) override;
00093
          void mouseReleaseEvent(QGraphicsSceneMouseEvent *event) override;
          void hoverEnterEvent(QGraphicsSceneHoverEvent *event) override;
00094
00095
          void hoverLeaveEvent(QGraphicsSceneHoverEvent *event) override;
00096
00097 private:
00098
         HostInfo m_host;
00099
         DeviceType m_type;
         00100
00101
00102
00103
          QString m_subnetGroup;
                                   // 子网组
00104 };
00105
00106 // 连接线
00107 class ConnectionLine : public QGraphicsItem
00108 {
00109 public:
00110
         ConnectionLine(DeviceNode *source, DeviceNode *target,
                        ConnectionType type = CONNECTION_DIRECT);
00111
00112
00113
         QRectF boundingRect() const override;
00114
         void paint(QPainter *painter, const QStyleOptionGraphicsItem *option, QWidget *widget) override;
00115
00116
          void updatePosition();
00117
00118
00119
          void setConnectionType (ConnectionType type);
00120
          ConnectionType connectionType() const { return m_connectionType; }
00121
00122 private:
          DeviceNode *m_source:
00123
00124
         DeviceNode *m_target:
```

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```
00125
          ConnectionType m_connectionType;
00126 };
00127
00128 // 拓扑图视图
00129 class NetworkTopologyView : public QGraphicsView
00130 {
00132
00133 public:
          NetworkTopologyView(QWidget *parent = nullptr);
00134
00135
00136
          void setHosts(const OList<HostInfo> &hosts);
00137
          void clear();
00138
          void autoLayout();
00139
          // 新增布局方法
00140
          void hierarchicalLayout(const QMap<int, QStringList> &layers);
void groupedLayout(const QMap<QString, QStringList> &groups);
00141
00142
00144 signals:
00145
          void nodeSelected(const HostInfo &host);
00146
00147 private:
          QGraphicsScene *m_scene;
QMap<QString, DeviceNode*> m_nodes;
QList<ConnectionLine*> m_connections;
00148
00149
00150
00151
00152
          TopologyAnalyzer m_analyzer;
00153
00154
          DeviceType determineDeviceType(const HostInfo &host);
00155
          void createConnection(DeviceNode *source, DeviceNode *target,
00156
                                  ConnectionType type = CONNECTION_DIRECT);
00157 };
00158
00159 // 网络拓扑组件(包含拓扑图和控制面板)
00160 class NetworkTopology : public QWidget
00161 {
00162
          Q_OBJECT
00163
00164 public:
00165
          NetworkTopology(QWidget *parent = nullptr);
00166
00167
          void updateTopology(const QList<HostInfo> &hosts);
00168
          void clear();
00169
          // 缩放和视图控制方法
00170
00171
          void scale(qreal factor);
00172
          void resetView();
00173
          // 新增: 切换布局方式
00174
00175
          void setLayoutMode(int mode);
00176
00177 signals:
00178
          void deviceSelected(const HostInfo &host);
00179
00180 private:
          NetworkTopologyView *m_topologyView;
00182
          QWidget *m_controlPanel;
00183
          enum LayoutMode {
00184
             LAYOUT_AUTO,
00185
               LAYOUT_HIERARCHICAL,
00186
00187
               LAYOUT_GROUPED
00188
00189
00190
          LayoutMode m_layoutMode;
          QList<HostInfo> m_currentHosts; // 缓存当前主机列表,用于布局切换
00191
00192 };
00193
00194 #endif // NETWORKTOPOLOGY_H
```

9.64 README.dox 文件参考

9.65 README.md 文件参考

9.66 scanhistory.cpp 文件参考

```
#include "scanhistory.h"
#include <QJsonDocument>
#include <QJsonArray>
#include <QJsonObject>
#include <QDebug>
scanhistory.cpp的引用(Include)关系图:
```



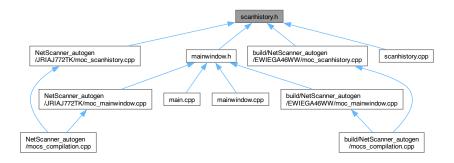
9.67 scanhistory.h 文件参考

```
#include <QObject>
#include <QDateTime>
#include <QList>
#include <QMap>
#include <QString>
#include <QFile>
#include <QTextStream>
#include "networkscanner.h"
scanhistory.h 的引用(Include)关系图:
```



326 文件说明

此图展示该文件被哪些文件直接或间接地引用了:



类

- struct ScanSession
- · class ScanHistory

9.68 scanhistory.h

浏览该文件的文档.

```
00001 #ifndef SCANHISTORY_H
00002 #define SCANHISTORY_H
00003
00004 #include <QObject>
00005 #include <QDateTime>
00006 #include <QList>
00007 #include <QMap>
00008 #include <QString>
00009 #include <QFile>
00010 #include <QTextStream>
00011 #include "networkscanner.h"
00012
00013 // 扫描会话数据结构
00014 struct ScanSession {
00015
          QDateTime scanTime;
00016
          QString description;
          QList<HostInfo> hosts;
00017
00018
00019
00020
          int totalHosts() const { return hosts.size(); }
00021
          int reachableHosts() const;
          int unreachableHosts() const { return totalHosts() - reachableHosts(); }
00022
00023
          QMap<int, int> portDistribution() const;
00024 };
00025
00026 // 扫描历史管理类
00027 class ScanHistory : public QObject
00028 {
00029
          Q_OBJECT
00030
00031 public:
00032
          explicit ScanHistory(QObject *parent = nullptr);
00033
00034
          // 添加扫描会话
00035
          void addSession(const QList<HostInfo> &hosts, const QString &description = QString());
00036
00037
00038
          QList<ScanSession> getSessions() const { return m_sessions; }
00039
00040
           // 获取特定会话
00041
          ScanSession getSession(int index) const;
00042
00043
          // 获取会话数量
00044
          int sessionCount() const { return m_sessions.size(); }
00045
```

9.68 scanhistory.h 327

```
00046
           // 清除所有历史记录
00047
           void clearHistory();
00048
           // 删除特定会话
00050
           void removeSession(int index);
00051
           // 将两次扫描结果进行比较,找出新增和消失的主机
00052
00053
           QPair<QList<HostInfo>, QList<HostInfo>> compareScans(int sessionIndex1, int sessionIndex2) const;
00054
          // 保存和加载扫描历史
bool saveToFile(const QString &filename) const;
bool loadFromFile(const QString &filename);
00055
00056
00057
00058
00059 signals:
00060
           void historyChanged();
00061
00062 private:
00063 QList
          QList<ScanSession> m_sessions;
00064 };
00065
00066 #endif // SCANHISTORY_H
```

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