

```
/*
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** unlimited (27 August 2015).
*/

/*
** JTNC Standard:
** Software Communications Architecture
** Appendix E: Model Driven Support Technologies
** Version: 4.1, 20 August 2015
*/

/* File: CFPrimitiveTypes.h */
#ifndef __CFPRIMITIVETYPES_DEFINED
#define __CFPRIMITIVETYPES_DEFINED
#include <stdint.h>

namespace CF
{
    typedef bool BooleanType;
    typedef BooleanType& Boolean_out;
    typedef BooleanType* Boolean_ptr;

    typedef char CharType;
    typedef CharType & Char_out;
    typedef CharType * Char_ptr;

    typedef uint8_t OctetType;
    typedef OctetType& Octet_out;
    typedef OctetType* Octet_ptr;

    typedef int16_t ShortType;
    typedef ShortType& Short_out;
    typedef ShortType* Short_ptr;

    typedef uint16_t UShortType;
    typedef UShortType& UShort_out;
    typedef UShortType* UShort_ptr;

    typedef int32_t LongType;
    typedef LongType& Long_out;
    typedef LongType* Long_ptr;

    typedef uint32_t ULongType;
    typedef ULongType& ULong_out;
    typedef ULongType* ULong_ptr;

    typedef float FloatType;
    typedef FloatType& Float_out;
    typedef FloatType* Float_ptr;

    typedef double DoubleType;
    typedef DoubleType& Double_out;
    typedef DoubleType* Double_ptr;

    typedef int64_t LongLongType;
    typedef LongLongType& LongLong_out;
    typedef LongLongType* LongLong_ptr;
}
```

```
typedef uint64_t ULongLongType;
typedef ULongLongType& ULongLong_out;
typedef ULongLongType* ULongLong_ptr;

typedef char* StringType;
class String_var;
class String_mgr;
class String_out;
}

#endif // __CFPRIMITIVETYPES_DEFINED
```