ET PROGRAMMING LANGUAGE

Basic information you need to know.

MAX BASE

A PROGRAMMER

Full-Stack Programmer, Low-Level Developer, and interest in the Compiler field.

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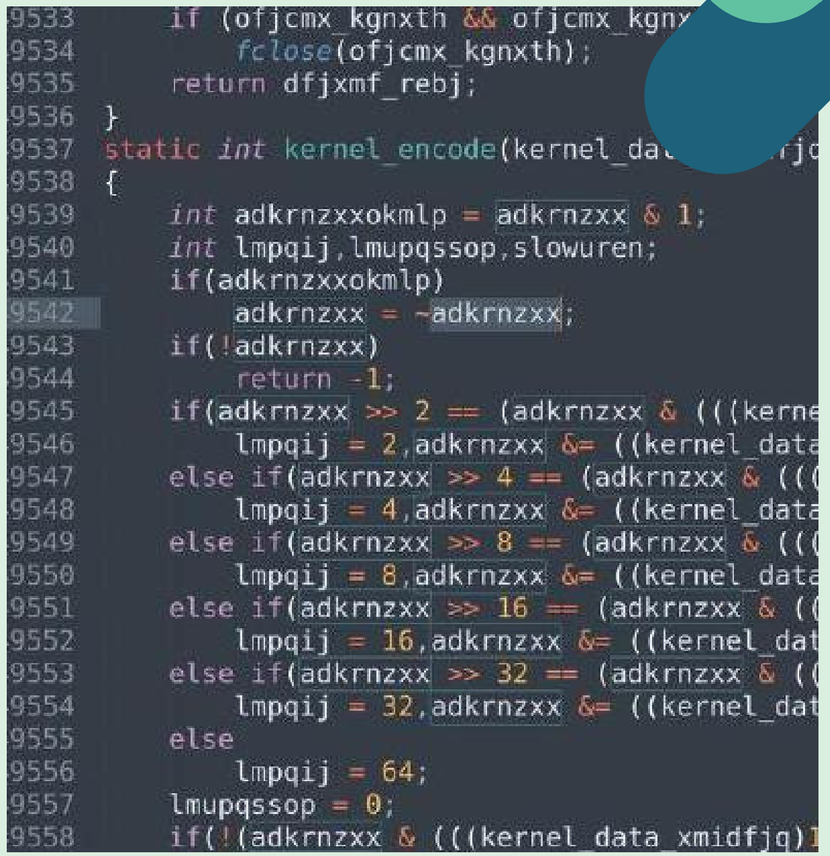


Welcome to ET!

ET is an open source system programming language that easy to build, reliable, and efficient, performance software.

A Programming Language for the earth.

JS.

The future of programming is a language built for the cloud.

VP ENGINEERING AT GOOGLE
AND
STEVE PEAK

NAMING ET

ABBREVIATED

Electronics-Technology

MEANING

Earth Tongue

SYSTEM LANGUAGE

A programming language used for system programming.

SELF-HOSTED

A compiler that can compile its own source code.

BOOTSTRAPPING

A technique for producing a self-compiling compiler.

MULTI ARCHITECTURE

Support multi-architecture. (x86, i386, ...)

MULTI PLATFORM

GNU/Linux, Unix-Like, Windows, and ...

CROSS COMPILER

Compile the code for multiple platforms from one development host.

FRONT END

A new and modern programming language with many features to develop software easily.

BACK END

Main core for generates the linking an executable file.

COMPILER

Front End
Back End

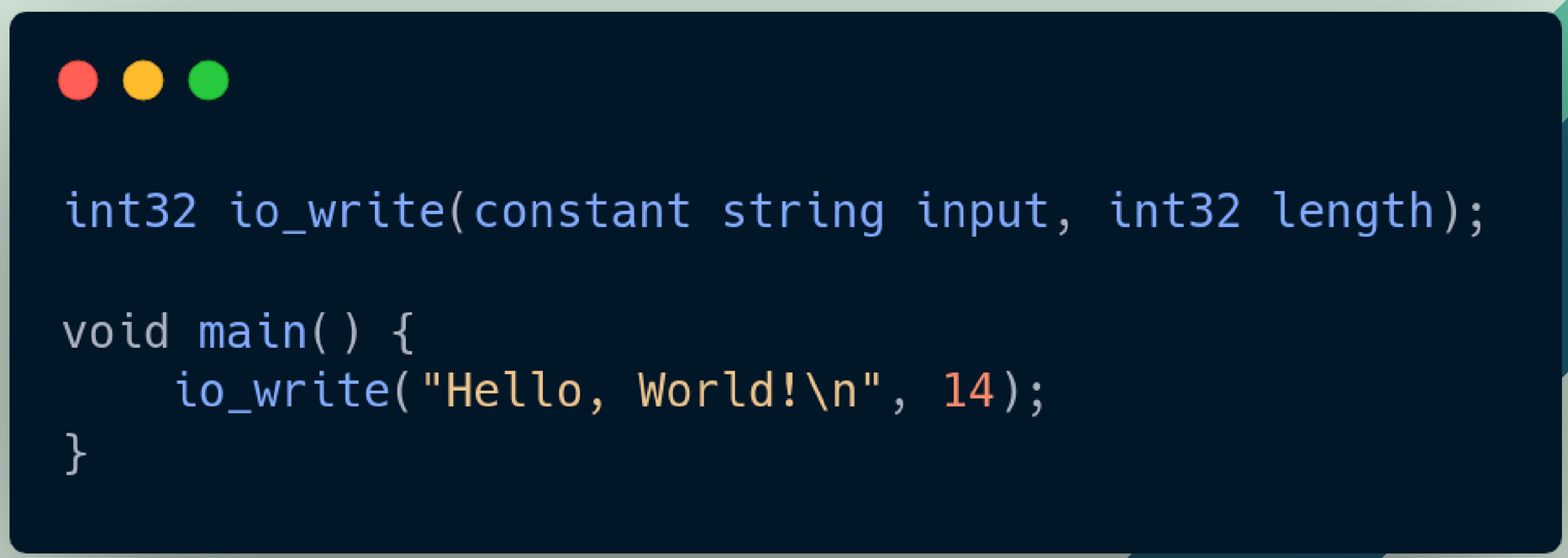
- INPUT SOURCE PROGRAM
- LEXICAL ANALYZER
- SYNTAX ANALYZER
- SEMANTIC ANALYZER
- INTERMEDIATE CODE GENERATOR
- CODE OPTIMIZER
- PLATFORM AND ARCHITECTURE
- CODE GENERATOR
- RUNTIME LIBRARY
- LINKER
- OUT TARGET PROGRAM

HELLO, WORLD!

HELLO, WORLD!

BACK END: HELLO, WORLD!

BASED ON ETLIB



```
int32 io_write(constant string input, int32 length);

void main() {
    io_write("Hello, World!\n", 14);
}
```

BACK END: HELLO, WORLD!

BASED ON GLIBC

```
int32 printf(constant string format, ...);

void main() {
    printf("Hello, World!\n");
}
```

FUTURE: GUI DEVELOPMENT

WEB, SOFTWARE

```
title "Name - Main"
description "Descriptions"
keyword "keywords"
style {
    * {
        margin 0
        padding 0
    }
    header {
        width "100%"
        height "auto"
    }
    list {
        color "red"
    }
    list item {
        display "inline"
        padding "10px"
        background "yellow"
    }
}
header {
    list {
        item {
            _ "Home"
        }
        item {
            _ "About"
        }
        item {
            _ "Contact Us"
        }
    }
}
```

```
title "Name - Main Page";
description "Desc,...";
keywords "key,...,...,...";
style {
  * {
        margin 0;
        padding 0;
  }
  header {
        width "100%";
        height "auto";
  }
  list {
        color "red";
  }
  list item {
        display "inline";
        padding "10px";
        background "yellow";
  }
}
header {
  list {
        item {
              _ "Home";
        }
        item {
              _ "About";
        }
        item {
              _ "Contact Us";
        }
  }
}
```

Home About Contact Us

FRONT END: ET

```
main:
    string.upper('a')
    string.lower('A')
    string.uppers("How are you?")
    string.lowers("HEY!")
    string.replace(...)
    string.search()
    string.found()
    string.split()
    ...
```

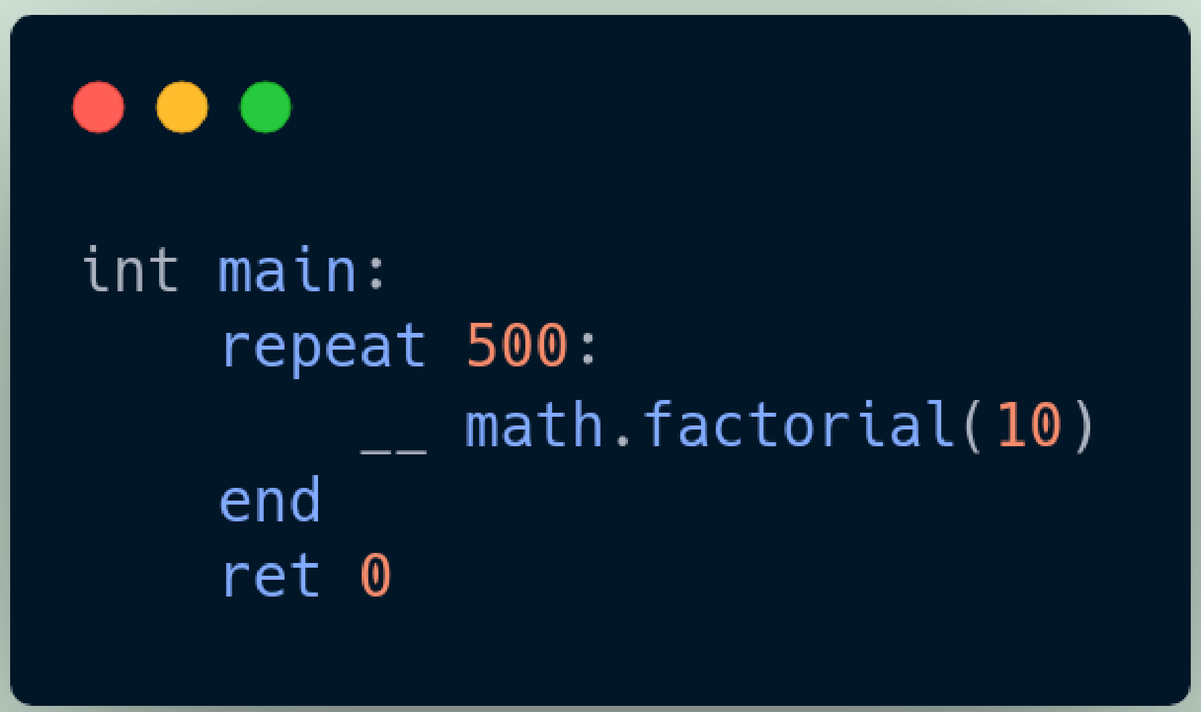
```
main:
    file.create("test.txt")
    file.set("test.txt", "Hey\n")
    string myString=file.content("test.txt")
    f=file.open("test.txt", "r")
    myString=f.content()
    f.delete()
    file.delete("test.txt")
    // ...
```

FRONT END: ET

```
main:
    math.sin()
    math.cos()
    math.tan()
    math.cot()
    math.asin()
    math.acos()
    math.pi
    // ...
```

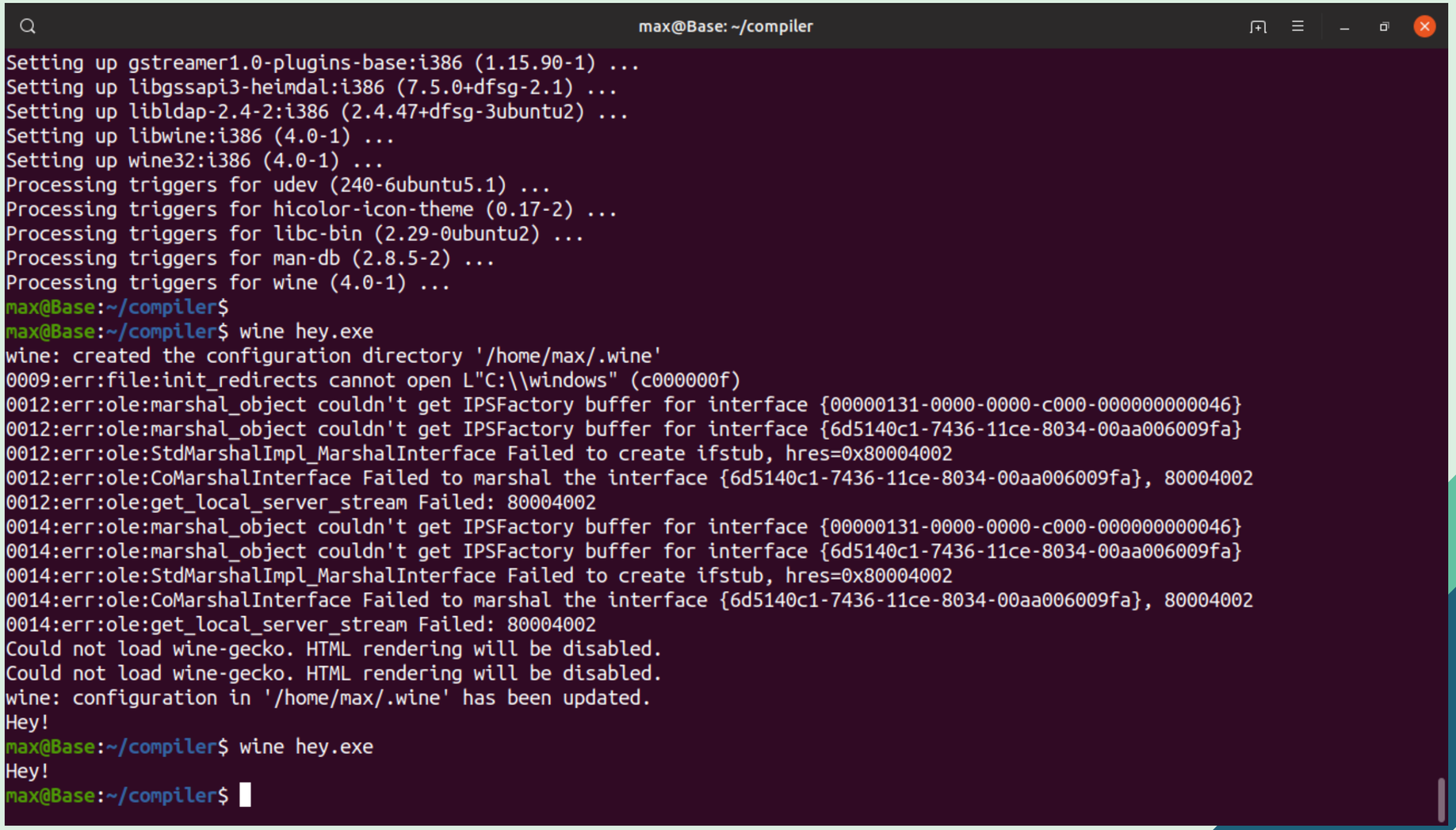
```
main:
    string myString=os.pwd()
    os.run()
    os.execute()
    os.call(...)
    // ...
```

FRONT END: ET



BUILD WINDOWS APP IN GNU/LINUX

WITHOUT WINDOWS OS



FRONT END: ET

DATA TYPE

- void
- int8
- uint8
- int16
- uint16
- int32
- uint32
- int64
- uint64
- char
- string
- bool
- ...


Yet, we keep
reinventing the wheel.

HISTORY OF ET

2011

A Library, Framework.

2014

A interpreter.

2015

A self-interpreter.

2016

A code generator.

2017

A self-host compiler.

2018

Runtime Library.

PROGRAMMING LANGUAGE
ET

A general-purpose, programming language.

IDE
ET STUDIO

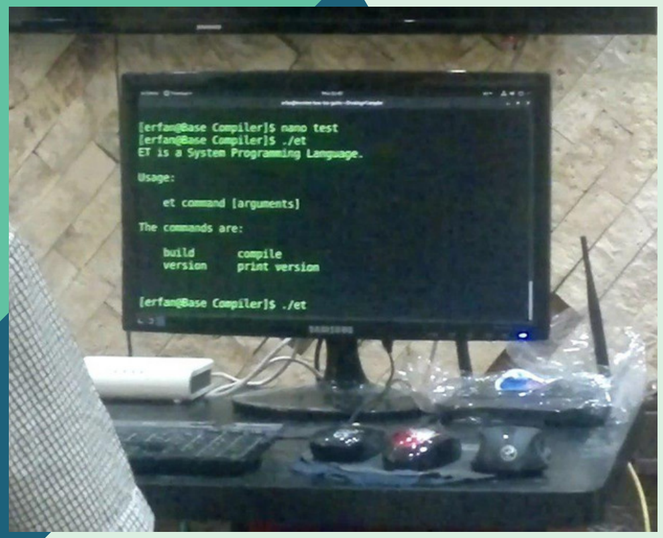
A software and editor for programming and write code.

WEBSERVER
JAN

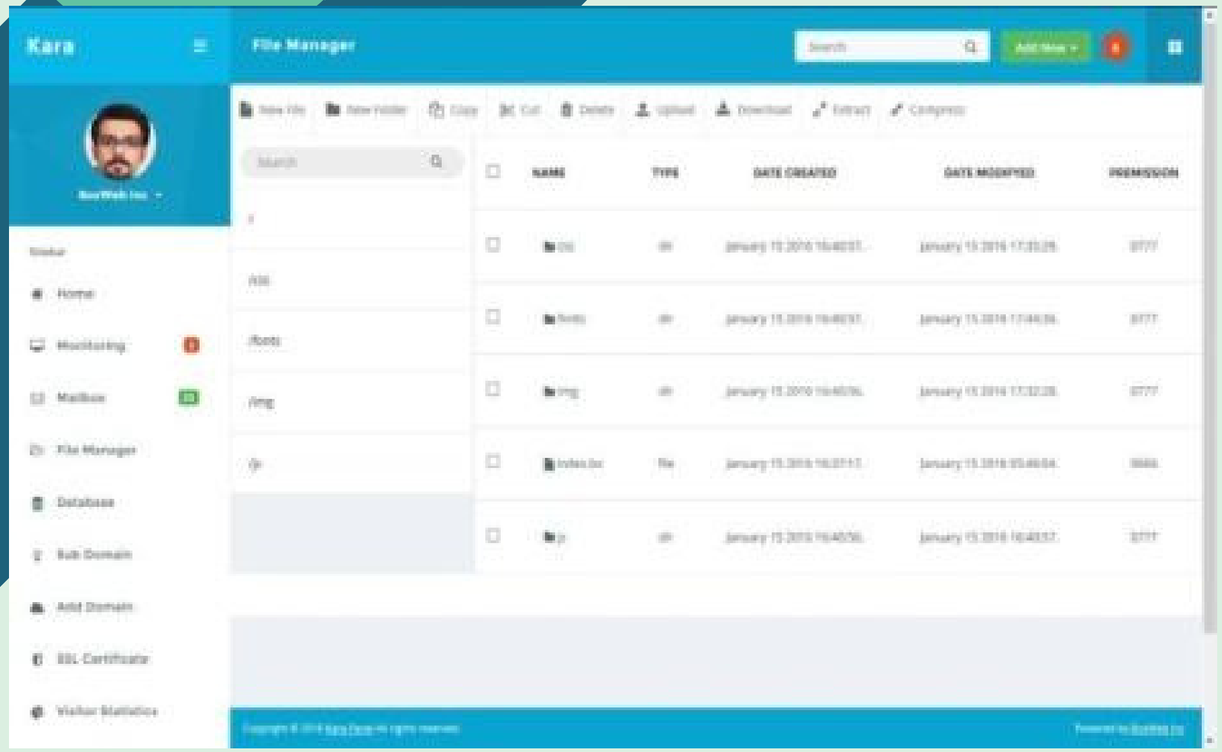
A software for listening to a port and register, and serve a port for the clients.

CONTROL PANE
KARA

A control panel to manage and control the server and the user host with a package as a file manager.


[erfan@Base Compiler]$ nano test
[erfan@Base Compiler]$ ./et
ET is a System Programming Language.
Usage:
et command [arguments]
The commands are:
build compile
version print version
[erfan@Base Compiler]$ ./et


NEW PROJECT


Kara
File Manager
NAME
TYPE
DATE CREATED
DATE MODIFYED
PERMISSION
Home
Monitoring
Mailbox
File Manager
Database
Bulk Domain
Add Domain
SSL Certificate
Visitor Statistics


BoxWeb
TRAFFIC
1,268
3,239
2,922
1,093

READY FOR GROW

1000

NEW USER IN DECEMBER

%

SUMMER 2019

WHEN WILL IT BE RELEASED?

CONTACT US

Thank you for listening to this Presentation.

Download the presentation file at :
https://github.com/ET-Lang/Presentation

TEAM

https://Asrez.com

LEAD MANAGER

https://github.com/BaseMax

REPOSITORY

https://github.com/ET-Lang/ET

Conference date: 2019-07-07