



GoBackwards

Go, but worse. Much worse.

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Introduction

GoBackwards provides an easy way to learn Go as a C programmer. The language itself is a minimalist implementation of Go, and the simple design finds its use for those who want to learn programming without the extra overhead that exists in Go, C, and other languages.

The language takes a much more elementary approach to functional programming and could be thought of as “baby’s first programming language” and is intended for those who have never coded. GoBackwards has the syntax of Go while also retaining the semicolon as the end-of-line token to introduce beginners to more traditional syntax practices.

Although the language is much simpler than the original Go language, GoBackwards still teaches basic computer science and programming fundamentals and concepts, like loops and conditional statements, that provide a thorough introduction to as well as lay a great foundation for future endeavors into programming.

Language Tutorial

GoBackwards has a few dependencies to keep in mind. These are OCaml, LLVM, c, and shell scripting. A common error is having the test.sh look in the wrong place for the LLC variable, please be mindful of your development environment setup.

To compile GoBackwards, type make. To run the test suite, run ./test.sh. To run the test suite and preserve the created files, run ./test.sh -k. You should be all set to compile .gob files with gobackwards.native!

Let’s try Hello World to get you started.

```
func main() {  
    println("Hello World!");  
}
```

So what’s going on here?

func main() declares the main function, println tells the compiler we are printing a string (print() is for integers) and “Hello World!” is going to be what is outputted to the command line when ./helloworld.exe is run. Go ahead, give it a try!

For more complicated programs, feel free to consult the test suite or the language manual. Both are well documented and clear. Have fun!

Language Manual

Lexical Conventions

Keywords

GoBackwards contains the following keywords, a reduced selection compared to full Go:

<code>if</code>	<code>else</code>	<code>for</code>	<code>while</code>
<code>int</code>	<code>bool</code>	<code>string</code>	<code>void</code>
<code>false</code>	<code>func</code>	<code>var</code>	<code>return</code>
<code>true</code>	<code>print</code>	<code>printb</code>	<code>println</code>

Operators and Punctuation

Operators combine operands into expressions. GoBackwards will provide the following types of operators: unary, arithmetic, logical, and comparison.

The following character sequences represent the operators and punctuation in GoBackwards:

<code>/*</code>	<code>(</code>	<code>)</code>	<code>{</code>	<code>}</code>	<code>;</code>
<code>+</code>	<code>-</code>	<code>*</code>	<code>/</code>	<code>=</code>	<code>==</code>
<code><</code>	<code><=</code>	<code>></code>	<code>>=</code>	<code>&&</code>	<code> </code>
<code>,</code>	<code>!=</code>	<code>!</code>	<code>[</code>	<code>]</code>	

Literals

GoB has **integer literals**, **boolean literals**, and **string literals**.

→ **integral literal**: sequence of digits representing an integer constant.

→ **boolean literal**: true or false

→ **string literal**: sequence of letters representing a string constant

```
Literal = int_literal | bool_lit | string_lit
```

Identifiers

Identifiers name program entities such as variables and types. An identifier is a sequence of one or more letters and digits. The first character in an identifier must be a letter.

```
Identifier = letter {letter | digit}
```

Expressions

Expression: specifies the computation of a value by applying operators and functions to operands.

```
Expression = Literal | Identifier | Assignment | FunctionCall
            | UnaryOperator | BinaryOperator | ( Expression )
Assignment = Identifier assign Expression
FunctionCall = Identifier ( variables_list )
```

Operator Precedence

Unary operators have the highest precedence. There are five levels of precedence for binary operators. Multiplicative arithmetic binds strongest, then additive arithmetic operators, followed by comparison operators, logical AND, and finally logical OR.

Unary Operators

- `-expression` : Denotes *negation*. The expression returned is of the same type. The expression must be an `int` or `char`.
- `!expression` : Denotes *logical negation*. If the value of the expression is 0 then ! returns 1. If the value of the expression is non-zero then 0 is returned.

Binary Operators

Arithmetic Operators

- `expression + expression` : Returns the *sum* of expressions. If both operands are `int` or `char` then an `int` is returned. A `pointer` operand and the other is an `int` or `char`, then a pointer to another object of the same type is returned. For example, “P+1” is a pointer to another object of the same type as the first and immediately following it in storage.
- `expression - expression` : Returns the *difference* of expressions. The same considerations for addition (+) apply.

- `expression * expression`: The operator `*` denotes *multiplication*. If both operands are `int` or `char`, the result is `int`. If one expression is an `int` or `char` and the other expression is a `float` or `double`, then the `int` or `char` expression is converted to a `double` and the result is a `double`. If both expressions are `float` or `double`, the result is a `double`.
- `expression / expression`: The operator `/` denotes *division*. The same considerations for the multiplication(`*`) operator apply.

Logical Operators

- `expression || expression`: The `||` operator returns 1 if either of the operands are non-zero. `||` guarantees left-to-right evaluation meaning the second operand is not evaluated if the first operand is non-zero.

The operands don't need to be of the same type, but they must be of one of the fundamental types or a pointer.

- `expression && expression`: The `&&` operator returns 1 if both operands are non-zero. `&&` guarantees left-to-right evaluation meaning the second operand is not evaluated if the first is 0.

The operands don't need to be of the same type, but they must be of one of the fundamental types or a pointer.

Comparison Operators

The comparison operators all yield 0 if the specified relation is false and 1 if it is true. Operand conversion is exactly the same as for the addition(`+`) operator except pointers of any kind can be compared. When two pointers are compared, the result depends on the relative location in storage of the objects that are being pointed to.

The following are the comparison operators:

- `expression < expression`: If the first expression is *less than* the second expression.
- `expression > expression`: If the first expression is *greater than* the second expression.
- `expression <= expression`: If the first expression is *less than or equal to* the second expression, then 1 is returned.
- `expression >= expression`: If the first expression is *greater than or equal to* the second expression.
- `expression == expression`: If the first expression is *equal to* the second expression.
- `expression != expression`: If the first expression is *not equal to* the second expression.

Assignment

Assignment expressions place an expression to a declared identifier.

- `Identifier = expression`: Assigns an expression to an identifier

Declarations

Declarations and Scope

declaration: binds non-blank identifier to a **variable**, or **function**

```
declaration = VarDecl | FunctionDecl
```

The *scope* of the declaration identifier is the text that describes the specified constant, type, variable, or function. GoBackwards uses *blocks* to lexically scope the language.

predeclared identifier:

scoped by the universe block

variable or function identifier:

scoped by the universe block

function parameter or result variable:

scoped by the function body

variable identifier declared inside a function:

begins at the end of the declaration

ends at the end of the innermost containing block.

Identifiers may be redeclared within inner blocks, and any identifiers redeclared within inner blocks denote the entity declared by the inner declaration.

Predeclared identifiers

These identifiers are declared in the universe block.

Type:

```
bool int string array
```

Constants:

```
true false
```

Functions:

```
print printb println
```

Uniqueness of identifiers

An identifier is considered *unique* if it is *different* from every other identifier. Different identifiers are spelled differently, otherwise they are the same. Additionally, predefined identifiers cannot be overwritten so that GoBackwards can easily distinguish identifiers that are unique and ones that refer to types.

Variables

A variable is a storage location for holding a value. The set of permissible values is determined by the variable's type. A variable declaration or, for function parameters and results, the signature of a function declaration or function literal reserves storage for a named variable. Structured variables of `array` have elements and fields that may be addressed individually. Each such element acts like a variable. Variables are defined by using the keyword `var` and must declare a type. For example:

```
var x int;
```

is a valid variable declaration that yields a variable storing an integer value of 0. Variables are initialized with a corresponding list of expressions according to rules for assignments and are initialized to its zero value otherwise.

```
VarDecl = var Identifier Type
```

Functions

function declaration: binds an identifier to a function

```
FunctionDecl = func Identifier Signature Block
Signature = ( variable_list ) type_list
Block = { variable_list stmt_list }
```

Statements

A statement in GoBackwards starts the execution of a function call as an independent concurrent thread of control within the same address space.

```
Stmt = Expression | ReturnStmt | Block | Conditional |
      Loop
Conditional = If ( Expression ) Stmt | If ( Expression )
            Stmt Else Expression
```

```

Loop = For ( Expression ; Expression ; Expression ) Stmt |
      While ( Expression ) Stmt

```

The expression is not parenthesized and must be a function or method call. As for expression statements, calls of built-in functions are restricted.

Similar to the Go language, in GoBackwards, the function value and parameters are evaluated as usual in the calling GoBackwards routine, but unlike with a regular call, program execution does not wait for the invoked function to complete. Instead, the function begins executing independently in a new GoBackwards . When the function terminates, its GoBackwards also terminates. If the function has any return values, they are discarded when the function completes.

Return statements

A "return" statement in a function F terminates the execution of F. It provides one or more result values. Any functions deferred by F are executed before F returns to its caller.

```
ReturnStmt = return Expression
```

If there's a function without a result type, a "return" statement must not specify any result values.

```

func noResult() {
    return
}

```

Similar to how the Go language handles return values, we specify three ways in GoBackwards to return values from a function with a result type:

1). The return value or values is explicitly listed in the "return" statement. Each expression must be single-valued and assignable to the corresponding element of the function's result type.

```

1. func exampleF() int {
2.     return 2
3. }

```

Because we keep the basic return types of Go, all the result values are initialized to the zero values for their type upon entry to the function. We consider this regardless of how they are declared. A "return" statement that specifies results sets the result parameters before any deferred functions are executed.

Implementation restriction: A compiler may disallow an empty expression list in a "return" statement if a different entity (constant, type, or variable) with the same name as a result parameter is in scope at the place of the return.

Built in Functions

Built-in functions are predeclared, called like any other function, and some of them accept a type instead of an expression as the first argument. They do not have standard Go types, so they can only appear in call expressions and cannot be used as function values.

`print`

Prints an integer to the command line.

`printb`

Prints a boolean to the command line

`println`

Prints a string to the command line

`ascii`

Takes in a string that is the name of an image file, and prints an ascii image of that file to the command line

Program execution

A complete GoBackwards program is run by the *main* function. The program must declare a function *main* that takes no arguments and returns no value.

```
func main() { ... }
```

Program execution begins by invoking the function *main*. When that function invocation returns, the program exits. It does not wait for other (non-main) GoBackwards routines to complete.

Project Plan

Development lifecycle

Planning and communication

The GoBackwards team remained very communicative throughout the entire course of the project, keeping teammates up-to-date on latest changes to codebase and constantly discussing best strategies for implementation of features in the language. Specifically, the team made use of **Slack** to communicate ideas with one another and made sure to meet at least once a week every week for the duration of the semester. As the semester came to an end, the team began to meet more regularly (every day to every other day) to ensure completion of the project in a timely manner.

Specification

GoBackwards was built with the language specification of Go in mind, although the team only implemented the most basic parts of the language as well as its syntax for this project. Besides the use of semicolons, the conventions and syntax of GoBackwards follows that of Go pretty accurately, and this similarity in specification is reflected most in the declaration of functions.

Though for parts of the project the team lacked a firm direction, everything came together in the end because of a continual desire to keep making progress, even if the exact result of that progress wasn't quite decided upon. The general category of Go allowed us to move forward, even as team members jumped ship.

Development and testing

Our testing process is explained in depth in its own section below. In brief summary, testing was first carried out to ensure the feature we were trying to implement worked, and then carried out in a way to purposefully break the feature to ensure error messages were returning. This happened over and over again, first as we moved away from MicroC, then with ascii, and finally with arrays.

Style guide

Since GoBackwards is designed mainly as a language for beginners, we are not as strict on style as we could be. Other than obeying normal rules of Go syntax, we didn't impose any additional requirements.

Timeline

September 11	Team formulation and repository initialized
September 26	Proposal submitted
October 27	First draft of LRM
November 5	Catherine Zhao leaves group
November 6	LRM finalized
November 9	Hello World implemented
November 20	Tahmid Munat leaves group
December 17	Compiler finalized
December 20	Final report and presentation

Roles and responsibilities

Shaquan Nelson <i>Project Manager</i>	semantic analysis and code generation, test case creation, documentation, compiler front-end
Peter Richards <i>Language Guru</i>	test case creation, C library implementation, semantic analysis and code generation
Julian Silerio <i>Tester</i>	compiler front-end, documentation, semantic analysis and code generation

Development environment

An improvement that could have been made during the development cycle would have been the standardization of a development environment across the team. The lack of standardization actually led to the creation of different makefiles depending on the location of the LLI library. The following table illustrates the development environments for each team member below.

Member	Operating System	Command line	Text editor
Shaquan Nelson	macOS	Terminal	Atom
Peter Richards	Ubunutu VM on Windows 10	Terminal	Atom/Vim
Julian Silerio	Windows 10	Bash on Ubuntu on Windows	Vim

Project Log

GoBackwards was developed in Github.

The repository is here: <https://github.com/pr/GoBackwards>

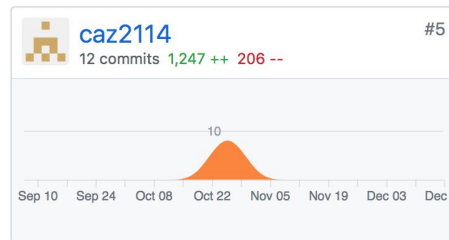
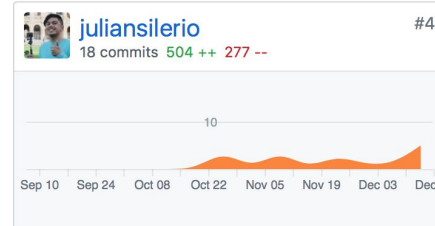
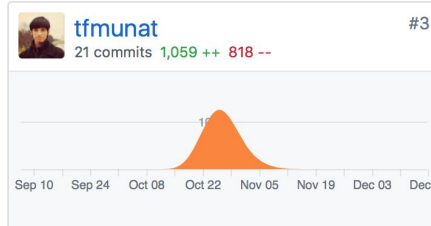
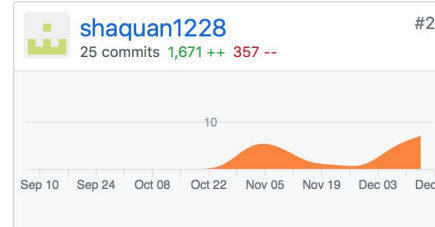
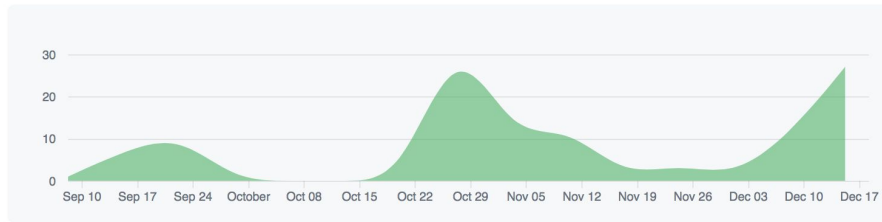
Below are the statistics from Github and the project log created during the development.

Name	Github Username
Shaquan Nelson	shaquan1228
Julian Silerio	juliansilerio
Peter Richards	pr
Tahmid Munat (legacy)	tfmunat
Catherine Zhao (legacy)	caz2114

Sep 10, 2017 – Dec 20, 2017

Contributions: **Commits** ▾

Contributions to master, excluding merge commits



Commit Log

commit 59b5ffe1b849437d99b4dbb5df092d9c287ec7b4

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Wed Dec 20 19:54:46 2017 -0500

fixed codgen and semant to print errors properly. also removed last warning

commit 02d2b4ccb0df8a82867c4aac6646635dba5340a3

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Wed Dec 20 08:52:57 2017 -0500

finished up arrays

commit ff938f347acf0965d88d121255adffe477de74e2
Merge: 2a9a35f 2c2e034
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Wed Dec 20 06:43:21 2017 -0500

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit 2a9a35f80c9b0328b6ed47897749111b6166b317
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Wed Dec 20 06:43:00 2017 -0500

added arrays to the language

commit 2c2e034a43df301af257bb554fef2515b5562d9d
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Dec 20 03:04:35 2017 -0500

translate test-fib to gob

commit 846ba3f3ad752bb6bab40451daa204057a5bb3f0
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Dec 20 02:59:03 2017 -0500

add test-example.out, clean up tests dir

commit 160f24fb123ee5ff5b46555c12b227271e93b36b
Merge: c122ba1 7e70033
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Dec 20 02:52:00 2017 -0500

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit c122ba15f67dc651c1d3d91aa79975f6dabbbc21
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Dec 20 02:51:44 2017 -0500

re-add test-example, simplify test-fib, clean up parser

commit 7e700333b3c4caeea5873fa9c481c563cbc94d92
Author: pr <peter@peter.net>
Date: Wed Dec 20 02:24:15 2017 -0500

small makefile fix

commit 376d1ab0aff5b42964158971791185f5828dcc83
Author: Peter Richards <prichardsf@gmail.com>
Date: Wed Dec 20 02:10:43 2017 -0500

Update README.md

commit 1b44491ac2c6de89f36b8c722310899104dca359
Author: pr <peter@peter.net>
Date: Wed Dec 20 02:09:54 2017 -0500

Fixed descriptions of test cases

commit 76f3d1717a6acc478e5921e966c56b152b65f0c5
Author: pr <peter@peter.net>
Date: Wed Dec 20 01:31:34 2017 -0500

final presentation images

commit 802737161bb4fd0e3bfb149176aa5266a869f6fc
Author: pr <peter@peter.net>
Date: Wed Dec 20 00:43:43 2017 -0500

starting to clean up codebase

commit 6c5f14a74b8a18c7edccd85fcb912f2f67145a61
Author: pr <peter@peter.net>
Date: Wed Dec 20 00:19:59 2017 -0500

More test cases

commit aff61c0f7504c88c30457d313097b2c26b243b47
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Tue Dec 19 23:35:58 2017 -0500

change int literals to i32

commit 598d031f5455793c63052ce6a3a36d3b5643c1b7
Author: pr <peter@peter.net>
Date: Tue Dec 19 22:50:18 2017 -0500

The semant needs more work

The semant needs to be integrated with the ascii function, merely getting it to work isn't enough. We need to make it so if the user makes a mistake it is caught.

commit dec1e4c28682b42cb9e5cab1849e4e2968714468

Author: pr <peter@peter.net>

Date: Tue Dec 19 21:00:30 2017 -0500

fixed codegen error

commit 1635c0ad1125afcd870cec06330adf21d2fd7cc3

Author: pr <peter@peter.net>

Date: Tue Dec 19 20:50:07 2017 -0500

6 Errors to Figure out

commit 91fe5a8fb14888b4711e67c0f17357938a0d0865

Author: pr <peter@peter.net>

Date: Tue Dec 19 20:36:33 2017 -0500

More ASCII Tests

commit 356445c91fe3934d5109760fb2c7fd3134152ed6

Author: pr <peter@peter.net>

Date: Tue Dec 19 19:31:32 2017 -0500

Fix test.sh

commit e42df039ce6b4439f0cf620fc1fe9eab4af29c2

Author: pr <peter@peter.net>

Date: Tue Dec 19 19:25:12 2017 -0500

More Test Cases

commit 22077e31f8f4bb7c42f22830c6380ac504c26d73

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Tue Dec 19 18:19:14 2017 -0500

added first template for test-example.gob slide

commit be04d7b71815212a1460d95bd050810f7845e6fd

Merge: 3ae6649 3f76abe

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Mon Dec 18 22:46:17 2017 -0500

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit 3ae6649aefa7b3687b1c6a475f08422bd2781bdc

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Mon Dec 18 22:45:45 2017 -0500

fixed ASCII problem

commit 3f76abe7b2fdb86c9cd9abfeffb1f8ebb770bb12

Author: pr <peter@peter.net>

Date: Mon Dec 18 17:01:58 2017 -0500

First start on Test Cases

commit 6ae39010d72cd377fb6246227d727a12d0c62497

Author: pr <peter@peter.net>

Date: Mon Dec 18 02:50:35 2017 -0500

we need this tomorrow

commit 86e84225ff672b71a454e93079f83ad7780e0378

Author: pr <peter@peter.net>

Date: Mon Dec 18 02:17:21 2017 -0500

cleaned up

commit c12cdf4971b4c75ec1279153f376f1a21182c480

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sun Dec 17 21:15:47 2017 -0500

removed quotation marks from strings

commit cc17515787533ee8b69837b95a30b72ec60e0203

Merge: 36a177c 2082ba9

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sun Dec 17 12:58:51 2017 -0500

merge previous branch

commit 36a177cab8bba917a10025d88a39c2c93df38b25

Merge: a7d9bc0 2526f43

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sun Dec 17 12:57:02 2017 -0500

Merge branch 'master' of <https://github.com/pr/GoBackwards> into shaquan_func_main

commit a7d9bc07b6506ea270d87aab4f1aad43fe394440

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sun Dec 17 12:56:04 2017 -0500

FUNCTIONAL VERSION OF GOBACKWARDS CODE

commit 2082ba91b81f59eac53c929fc0ef53f4cb1e92a4

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sat Dec 16 22:55:00 2017 -0500

Added VAR keyword to parser

commit 2526f43ee36f86756da714b4aa3dfbb828be18cc

Merge: 115c705 a2e8212

Author: Peter Richards <prichardsf@gmail.com>

Date: Sat Dec 16 20:13:43 2017 -0500

Merge pull request #6 from pr/shaquan_func_main

Shaquan func main

commit a2e8212625d1660f36e773fa4ba7a073bc131f20

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sat Dec 16 20:04:36 2017 -0500

readed error messages, fixed test case 2--no more multiple return types, began adding var keyword

commit 60dcc12006c056482b16339e1c1c478b25349486

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sat Dec 16 18:31:51 2017 -0500

FUNC MAIN FUCKIN WORKS DONE BY YOUR BOY TRULY

commit 22ede91718995130a6a60fefc8f1239a39c89aa6

Author: Shaquan Nelson <sdn2115@columbia.edu>

Date: Sat Dec 16 12:48:19 2017 -0500

compiles for all functions except func main?

commit 115c705a2cb43a368ef148a5d85936b271d794ba
Author: pr <peter@peter.net>
Date: Fri Dec 15 21:57:14 2017 -0500

print in ascii library

commit 9bda17b72ce82bebce589082a065065790e364c3
Author: pr <peter@peter.net>
Date: Fri Dec 15 19:48:27 2017 -0500

ASCII Art Direction

commit f06b5d6e8113dca6e53725479234b2c57bc7794f
Merge: 60fe62a 2e54ffd
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Fri Dec 15 14:44:05 2017 -0500

added tests cases to fix_func_main branch

commit 60fe62a30edba0d68a57d27b9b806a8c54a037c2
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Fri Dec 15 13:58:13 2017 -0500

added test cases to new branch

commit 2e54ffd9d67482c19441d77a75c0310629ec33d1
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Fri Dec 15 02:15:31 2017 -0500

modify codebase to improve function declarations

commit 58cdd1f398554ffab1627a9d49fbac53d03fb3a1
Author: Peter Richards <prichardsf@gmail.com>
Date: Thu Dec 14 17:40:10 2017 -0500

Create ascii.gob

commit baf3f2bfcdf9d3fbe9312e6de354833af24d1bd8
Author: pr <peter@peter.net>
Date: Thu Dec 14 11:41:59 2017 -0500

enigmainc

commit d34aaa827e7fe217defe7e677b51823e81a1d1ca
Author: pr <peter@peter.net>
Date: Thu Dec 14 11:35:06 2017 -0500

enigma info

commit 3512a3a367c51906270b1e6f52bc1374f5881f32
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sun Dec 3 06:51:17 2017 -0500

remove main declaration, generalize function declaration instead

commit 3f2e8b4ea844123113c6b085cb795b711bb4a16c
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sat Dec 2 16:01:27 2017 -0500

begin reworking func declaration to better match go lang

commit 3c441e69bcc83e8e8e9db910b3d3abc3815e086d
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sat Dec 2 15:04:39 2017 -0500

update trio ast, parser, scanner to reflect main decl

commit e601fbc96e2d81e2ecb1767af5e1d36b50aaf984
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Nov 29 02:00:49 2017 -0500

modify ast, parser for func main (not working yet, need to look at codegen and semant)

commit 04aa9eb2167e0be20ef1e5b14f433e9d4956dcff
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Mon Nov 27 17:36:18 2017 -0500

fixed helloworld test

commit 2e2a8e760e87dd296ca1c8f4f45cdf9244b6eeaf
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Tue Nov 21 23:04:11 2017 -0500

added tests and fixing func situation

commit 74e48c71fdbbd98ca12cd2e447d7d458321f9b61
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Sat Nov 18 18:58:24 2017 -0500

maybe i missed a commit?

commit c5a583324c494c1d44e6e85b894d97fd47c8f251
Merge: 0855055 322f109
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Wed Nov 15 18:15:40 2017 -0500

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit 0855055b5df9174fbf3ca373e75ea9db5280fa8e
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Wed Nov 15 18:15:20 2017 -0500

added executable.

commit 322f109a2795f850b5052848b3ec53b05f48b4e7
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Wed Nov 15 18:06:00 2017 -0500

fix return value on tcpserver function

commit 05784fad18e16bcf7da5688b220591955488d37b
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Wed Nov 15 17:58:00 2017 -0500

fixed tcpserver.c

commit b750f51606157f2a5b360dc6f471c8b1918f1bd4
Merge: c025ab3 459394e
Author: juliansilerio <julian.silerio@gmail.com>
Date: Wed Nov 15 17:52:12 2017 -0500

Merge pull request #5 from pr/import_lab_7

fix module linkage

commit 459394e863ca2461cfe6991a83fcb17514256523
Author: Julian Silerio <julian.silerio@gmail.com>

Date: Wed Nov 15 17:51:35 2017 -0500

fix module linkage

commit c025ab3d59c8fd762ab243af19a393cb9eaca1a6

Merge: 1b66a98 52d5204

Author: Peter Richards <prichardsf@gmail.com>

Date: Wed Nov 15 17:44:33 2017 -0500

Merge pull request #4 from pr/import_lab_7

Import lab 7

commit 52d52045a3b66089b1a2245fdc29ca155475d187

Merge: 88fa9ff 1b66a98

Author: Julian Silerio <julian.silerio@gmail.com>

Date: Wed Nov 15 17:22:48 2017 -0500

merge master to branch

commit 88fa9ff14e882263856edc99dc9711e6c65bbe81

Author: Julian Silerio <julian.silerio@gmail.com>

Date: Wed Nov 15 17:06:39 2017 -0500

get gob to compile, create test

commit 1b66a987c95a84f5120b032694fa2fe660a67d9c

Author: shaquan1228 <sdn2115@columbia.edu>

Date: Wed Nov 15 16:36:33 2017 -0500

updated language reference manual.

commit 4986426515d2bc5d8d7489c1a0bac87fff2800cd

Author: pr <peter@peter.net>

Date: Wed Nov 15 15:52:49 2017 -0500

starting on http-server

commit 5f2bb26e1bd2d6e658afb940417986c226c85ac9

Author: Julian Silerio <julian.silerio@gmail.com>

Date: Wed Nov 15 15:49:48 2017 -0500

try to implement tcp server, encounter parse error on semant.ml

commit 8c336d95377c447f54b1ed1182218fa6a268dead
Author: Peter Richards <prichardsf@gmail.com>
Date: Tue Nov 14 00:31:54 2017 -0500

Update README.md

commit 674eb2a9a1a44291b5773d00d8719f065a7d08fc
Author: shaquan1228 <sdn2115@columbia.edu>
Date: Mon Nov 13 18:35:10 2017 -0500

Created http-server.c

commit d3b46cdb482ab0555a3013cbd12a62c91b837bf6
Author: pr <peter@peter.net>
Date: Mon Nov 13 18:14:55 2017 -0500

Reorganize Codebase

commit 9e9a8f2d5e479c7e4b8dfad6eea76f149bd8d123
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Nov 13 17:52:12 2017 -0500

Update README.md

commit e956c11a8beb6cd6e7677f74595454dd20cf88d6
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Thu Nov 9 14:35:36 2017 -0500

changed test cases and added println statement to print strings

commit 33be2e0ff80b00e88ad5c132546d3222a71f165e
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Thu Nov 9 12:43:20 2017 -0500

now codegen works as well. takes in strings -Shaquan

commit eb543b60f7e6e2376856dcb295615222a9dbf389
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Thu Nov 9 12:05:03 2017 -0500

Shaquan changed Peter's files

commit a6317b5aee927616b21d768a77a9ce708fef7843
Author: pr <peter@peter.net>
Date: Tue Nov 7 23:33:48 2017 -0500

My Stab

Heavily based on MicroC, doesn't print strings. Need to modify codegen.ml and semant.ml

commit a62f86e5deed89c4badc443bfd4939401ee2a419
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Mon Nov 6 21:20:01 2017 -0500

added folder with partial implementations

commit d61ff42ab3d8cb8cfa4bbedb3db2f190c679d571
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Mon Nov 6 15:53:40 2017 -0500

Changed printf to println

commit 46d6ebaa4f14184efabb3320ea717a2a78fa11a3
Author: Shaquan Nelson <sdn2115@columbia.edu>
Date: Mon Nov 6 15:44:15 2017 -0500

First version. for println

commit 965bc046dadf3cbe437e2846b13fbcf219adff0b
Author: shaquan1228 <sdn2115@columbia.edu>
Date: Mon Nov 6 14:37:13 2017 -0500

Create codegen.ml

commit 02d808bee2dc9b400b3eb6944bff6e2f17ee236e
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Mon Nov 6 01:39:04 2017 -0500

fixed func_dec for scanner

commit 0b66256a83f34511aa70b2d3f85789756d490780
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Mon Nov 6 01:04:43 2017 -0500

added .gitignore, restructured the project

commit 94881e67c3f7f1be8d97436b9eedc376a50d329e
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sat Nov 4 20:31:04 2017 -0400

begin semant.ml

commit 05c4e722df8578e65bdca6a1230debec6ae27454
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sat Nov 4 19:40:46 2017 -0400

fill in more of ast

commit 0d1cb7dd36f0990eb4bea2f53a7182ee44f1a5e4
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Sat Nov 4 19:18:17 2017 -0400

add stmt to ast

commit 24d4303939b84c8d07406d8bed6c5d59034f8587
Author: caz2114 <caz2114@barnard.edu>
Date: Sat Nov 4 04:04:44 2017 -0400

reference manual

commit 72e771740ad6937023011c804d24753927dfc55a
Author: caz2114 <caz2114@barnard.edu>
Date: Sat Nov 4 04:02:15 2017 -0400

removed all cmo files, added tcserver and example for clang to get llvm code

commit 4cceb54f72c741be418e1052e79c8744b5763367
Author: caz2114 <caz2114@barnard.edu>
Date: Sat Nov 4 01:15:48 2017 -0400

partial ast implementation

commit 08e7dbfd0638e97d01340e5c2ff4e2eb8922521b
Author: Julian Silerio <julian.silerio@gmail.com>
Date: Thu Nov 2 20:35:37 2017 -0400

add fdecl (pulled from microC)

commit 8b1fc8891fd845f5e7eb9250a09745e434d079e6
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 17:36:14 2017 -0400

removed semi in vdecl

commit 1ddc82972058dd9bd57621bfc0c6895926d6153b
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 17:32:53 2017 -0400

fixed syntax

commit 657027ec15f3a80e1cd4c1c6ff4538d72c658ed7
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 17:24:35 2017 -0400

added more definitions

added decls, formals_opt, formal_list, vdecl_list, vdecl and stmt_list

commit f0d34f47a04b9f2cef3149e15aef5c0791459fa0
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 17:08:19 2017 -0400

added more expressions to the parser

commit 97f1f820dff46eb44fcc2fe2db04ab06de3e21c7
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:59:00 2017 -0400

initializing ast and functions

commit 10cc41d3272295c9c7156dca1164ec69dce9fa42
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:28:51 2017 -0400

Restore pointer to * and address to &

commit 301dd869a700662770f25622451c2b35197115b7
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:24:03 2017 -0400

added string and double to parser

commit d5738ed333d750f0f80298738bd5dec8fb9145f3
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:19:40 2017 -0400

scanner syntax correction for digit and double

commit 77fa5f6eb38161e0bb35ca611e3592c9f127167f
Merge: adce2d4 83af1c2
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:10:37 2017 -0400

Merge pull request #3 from pr/digits-scanner

added digits for the scanner

commit 83af1c275b81068cc684b25d096bf35b8dbbe957
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 16:10:10 2017 -0400

added digits for the scanner

commit adce2d4089eaf578a8ac35a2ae38b78fdc009dc1
Merge: 7b9e220 3640614
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 15:59:39 2017 -0400

Merge pull request #2 from pr/mystring-scanner

added string in scanner

commit 36406142706d92013d47b2fd48c4cca31b51d54c
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 15:58:46 2017 -0400

added string

commit 7b9e220dc0aa9b7f46f153f06d58b6e339e0e9c9
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 15:26:23 2017 -0400

token fixes, partial program, decl and expr

commit db5fb39fae6f8625f586c6b2b257d70e36611daf
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Thu Nov 2 15:02:14 2017 -0400

added int, not and single line comments

commit 345957752ea5066ece7eade1b91501dd786fdb90
Merge: 554b0a4 7836ea2
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Wed Nov 1 23:34:38 2017 -0400

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit 554b0a436a1a4e641c282d0699a93f8baf8bda5
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Wed Nov 1 23:34:27 2017 -0400

updated comma

commit 7836ea2b0c4e6c3570ed14195c8ed036f0d59b18
Author: caz2114 <caz2114@barnard.edu>
Date: Wed Nov 1 16:06:26 2017 -0400

tcp-client changed

commit edd8d54bda05be51770f5a820bddbd4456e79f32
Merge: dcf96d 1e1161c
Author: caz2114 <caz2114@barnard.edu>
Date: Wed Nov 1 12:21:38 2017 -0400

"okay"

Merge branch 'master' of <https://github.com/pr/GoBackwards>

commit dcf96d59d6197285af3979707e91be55ea3d5c4
Author: caz2114 <caz2114@barnard.edu>
Date: Wed Nov 1 12:21:12 2017 -0400

removed repeating files

commit 1e1161c8c177ecfab65758b2b0c21b4ef5284abe
Author: Tahmid Munat <tmunat@gm.slc.edu>
Date: Wed Nov 1 03:28:54 2017 -0400

updated scanner and parser

commit a9f0e695ea839a890e6400ff3eaf5513787e5ae4
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Wed Nov 1 01:16:48 2017 -0400

fixed syntax

commit 4c30e2c57005d0ae8c638c797479b38db6ed36db
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Wed Nov 1 01:12:10 2017 -0400

Added "for" "_" and "<-"

commit f4ce3c30bc771709872e1c3c44068bf68d3c3f6b
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 23:18:24 2017 -0400

tcp examples

commit 542fa31d35eff579901545275ec8d1227100a8ae
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 19:45:18 2017 -0400

reference

commit 6cd77077a6d2ee288703e2d80564dbffb05fa135
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 18:50:56 2017 -0400

Delete webserver.gob

commit b302db8e09bb0b1ecd49aafa543d4973d2d68cbb
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Tue Oct 31 18:48:09 2017 -0400

added a parser for GoBackwards

commit c30ea83893a1c2077263ae32c898af7fbcf9dddb
Merge: e038e9a 92fd863
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Tue Oct 31 18:26:48 2017 -0400

Merge pull request #1 from pr/scanner_v2

added necessary entries; handles most programs

commit 92fd863a0a0ab69185d43f72f2e6aff485734ec7
Author: Tahmid Munat <tfmunat@users.noreply.github.com>
Date: Tue Oct 31 18:26:03 2017 -0400

added necessary entries; handles most programs

commit e038e9aaa09ad70b1399e2ef7cf582c6adc5d862
Author: Peter Richards <prichardsf@gmail.com>
Date: Tue Oct 31 16:46:00 2017 -0400

println not orintln

commit dd9b1a399a57c125824fed41cf9f8efe0c3c8054
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 14:58:52 2017 -0400

Update webserver.gob

commit 585af6ee75b9b8f84c62891b6a4bcab643e66e1f
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 14:58:23 2017 -0400

Update helloworld.gob

commit 5c4c36491fdadf20181ed1c58157f8d5a555c8d8
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 14:57:39 2017 -0400

Create webserver.gob

commit 41fe8c7903c1f4c85120ef05198b702931ecab44
Author: Peter Richards <prichardsf@gmail.com>
Date: Tue Oct 31 14:43:17 2017 -0400

First draft

commit cecddd5dfd440dab78c70a359c2ee9e1058a84d
Author: caz2114 <caz2114@barnard.edu>
Date: Tue Oct 31 03:48:08 2017 -0400

all ocaml files for language

commit b65c032f956b033e572f289dd59e216d41d52eb2

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 20:22:52 2017 -0400

Rename NFARepresentation.gob to NFArepresentation.gob

commit 5d5a2676abdcc84f1186f0e876533bd22565b634

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:59:32 2017 -0400

Update helloworld.gob

commit 60e06341bbca9ec300171350d860822b374978aa

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:59:21 2017 -0400

Update NFARepresentation.gob

commit f4cb71cfb94964b8209236aa3ab75d63a6acf534

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:56:01 2017 -0400

Update helloworld.gob

commit ed1eab85b7c79d2b6d01e81741a4b0fd640ba449

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:54:17 2017 -0400

Delete ping.gob

commit ca078cd26c16f4ccabe802242a3c96e49beb5a86

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:50:43 2017 -0400

Rename NFARepresentation to NFARepresentation.gob

commit 746bbd542cc9f3d060b3f8071bef02950bcf0da0

Author: Peter Richards <prichardsf@gmail.com>

Date: Mon Sep 25 15:50:31 2017 -0400

Create NFARepresentation

commit 72156ae457c8bff0541b9e4ffc2230506bdcb69d
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 25 15:28:45 2017 -0400

Delete Catherine's Program

commit df964e06a832037945d8cd1a85269d4922661af3
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 25 15:27:46 2017 -0400

Update README.md

commit dfa6237f3faa980b5602a8fe0b59ca6c65857bb3
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 25 15:26:52 2017 -0400

Update README.md

commit d57e5f1f3c7261ae98b093843fc9adb242636175
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 25 15:25:56 2017 -0400

Update README.md

commit d75ed116aa20f145efb995b1ecc4f11136f158ae
Author: Peter Richards <prichardsf@gmail.com>
Date: Fri Sep 22 17:55:21 2017 -0400

Update ping.gob

commit 54db08634a2cc672814ce1752111723c422931c9
Author: Peter Richards <prichardsf@gmail.com>
Date: Fri Sep 22 14:26:16 2017 -0400

Create ping.gob

commit 64f583bcfb16978f8ebb44ec35f4ec40de6d0f6e
Author: Peter Richards <prichardsf@gmail.com>
Date: Fri Sep 22 14:06:07 2017 -0400

Update helloworld.gob

commit 8240b2dee6340d6701baf9403ea3aaf0cf5edf27
Author: Peter Richards <prichardsf@gmail.com>
Date: Fri Sep 22 14:02:50 2017 -0400

Create helloworld.gob

commit c2c48d02258d681d52036274fa9c4d4c979453c5
Author: Peter Richards <prichardsf@gmail.com>
Date: Wed Sep 20 11:45:20 2017 -0400

Update README.md

commit 6a2dc10f4d6354e3a10988cf72896a1e6ddc4be1
Author: Peter Richards <prichardsf@gmail.com>
Date: Wed Sep 20 11:40:37 2017 -0400

Create Catherine's Program

commit e6a411531bc143d0131a59dd08fa702c54c16d95
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 18 21:18:49 2017 -0400

Update README.md

commit 43f3cc3292ef2d3e40ffafad5a309b56f5785ac1
Author: Peter Richards <prichardsf@gmail.com>
Date: Mon Sep 11 20:22:03 2017 -0400

Initial commit

Architectural Design

The compiler for GoBackwards can be broken down into five basic components: the scanner, the parser, the abstract syntax tree, the semantic type checker, and the code generator. An explanation for each individual component can be found below accompanied by the the pipeline for a GoB program from input program to output.

scanner.mll (implemented by Shaquan, Peter, and Julian)

The scanner is the first component used by the compiler to check the validity of a program. Once an input program has been given, the scanner lexically checks each token in the program to determine whether or not the token given is a valid token in GoBackwards. If the token is not

valid, then the program fails to compile; otherwise, the scanner passes the program on to the parser.

parser.mly (implemented by Shaquan, Peter, and Julian)

The parser checks the lexically scanned tokens and determines whether each token is part of a valid phrase in GoBackward's architecture. The parser essentially follows the construction of a deterministic finite automaton for a context-free grammar and follows each token given to determine whether or not the input program is valid for this language. If the parser finds a set of tokens that does not correspond to a rule in the grammar, then the program fails to compile; otherwise the parser passes the input on to the abstract syntax tree.

ast.ml (implemented by Shaquan, Peter, and Julian)

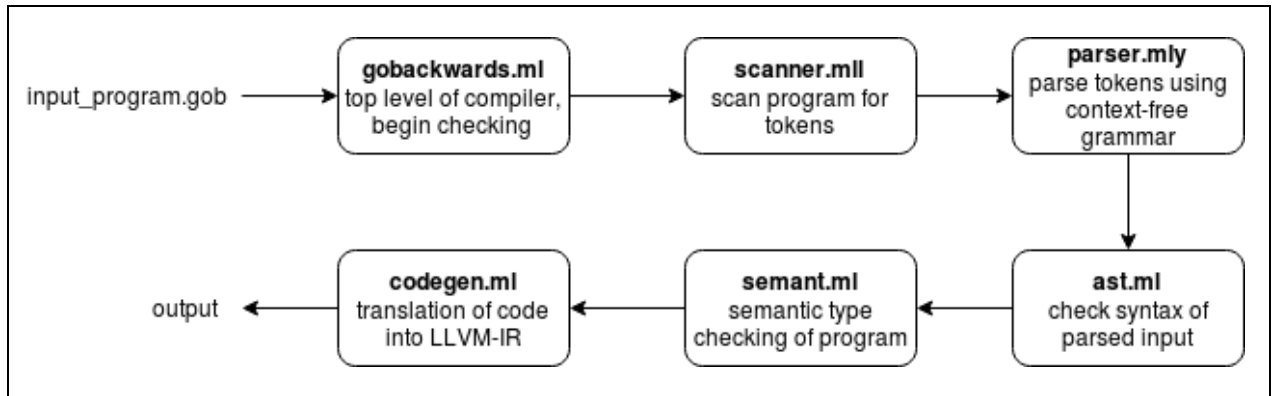
The abstract syntax tree then takes the validated phrases of the input program and checks whether the overall syntax of the program fits the syntax of the language. If chunks of code are found that do not fit the framework of the syntax tree, then the program fails to compile; otherwise the program is passed to the static semantic checker.

semant.ml (implemented by Shaquan, Peter, and Julian)

The static semantic checker individually looks at each function and variable to determine whether or not each part of the program has been properly declared. The semantic checker determines whether functions have their proper return types, whether operands can be used for certain operators, whether statements are valid under the architecture of this compiler, and whether other components fit the guidelines specified by the language reference manual. If the static semantic analysis finds something that doesn't match the specification, then the program fails to compile; otherwise the program is passed to the code generator.

codegen.ml (implemented by Shaquan, Peter, and Julian)

Finally the code generator takes a semantically, syntactically validated program and translates the code into LLVM-IR before executing the code and returning an output. Code that cannot be properly translated into LLVM-IR fails to compile under the compiler; otherwise the program is executed and an output returned.



Pipeline of a program through the GoBackwards compiler.

Test Plan

Testing was performed in step with the development of our language. As we flushed out features (ascii, arrays, etc.) we would design tests to make sure those functionalities (a) functioned as intended (b) returned an error message when they were improperly used.

Below are two representative source language programs along with the target language program generated for each.

test-example in GoBackwards

```

/* explicit types of parameters and return value */
func helloworld_helper(x string) string{
    return(x);
}

/* multiple parameters and expressions in returns */
func add(x int, y int) int {
    return x + y;
}

/*main method is needed to run any gobackwards function*/
func main(){

```

```

/* variable initialization */
var s1 string;
var i1 int;
var b1 bool;

var s2 string;
var i2 int;
var b2 bool;

/* variable declarations */
s2 = "hi";
i2 = 10;
b2 = true;

println(s1);
println(s2);
print(i1);
print(i2);
printb(b1);
printb(b2);

/* calling helper functions */
print(add(3,4));
println(helloworld_helper("Hello, World!"));

/* calling built in ascii function */
ascii("star.png");
}

```

test-example in LLVM

```

; ModuleID = 'GoBackwards'

@fmt = private unnamed_addr constant [4 x i8] c"%d\0A\00"
@fmt.1 = private unnamed_addr constant [4 x i8] c"%s\0A\00"
@0 = private unnamed_addr constant [3 x i8] c"hi\00"
@1 = private unnamed_addr constant [14 x i8] c"Hello, World!\00"
@2 = private unnamed_addr constant [9 x i8] c"star.png\00"
@fmt.2 = private unnamed_addr constant [4 x i8] c"%d\0A\00"
@fmt.3 = private unnamed_addr constant [4 x i8] c"%s\0A\00"

```

```

@fmt.4 = private unnamed_addr constant [4 x i8] c"%d\0A\00"
@fmt.5 = private unnamed_addr constant [4 x i8] c"%s\0A\00"

declare i32 @printf(i8*, ...)

declare void @ascii(i8*)

define i32 @main() {
entry:
  %s1 = alloca i8*
  %i1 = alloca i32
  %b1 = alloca i1
  %s2 = alloca i8*
  %i2 = alloca i32
  %b2 = alloca i1
  store i8* getelementptr inbounds ([3 x i8], [3 x i8]* @0, i32 0, i32 0), i8** %s2
  store i32 10, i32* %i2
  store i1 true, i1* %b2
  %s11 = load i8*, i8** %s1
  %printf = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt.1, i32 0, i32 0), i8* %s11)
  %s22 = load i8*, i8** %s2
  %printf3 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt.1, i32 0, i32 0), i8* %s22)
  %i14 = load i32, i32* %i1
  %printf5 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt, i32 0, i32 0), i32 %i14)
  %i26 = load i32, i32* %i2
  %printf7 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt, i32 0, i32 0), i32 %i26)
  %b18 = load i1, i1* %b1
  %printf9 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt, i32 0, i32 0), i1 %b18)
  %b210 = load i1, i1* %b2
  %printf11 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt, i32 0, i32 0), i1 %b210)
  %add_result = call i32 @add(i32 3, i32 4)
  %printf12 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt, i32 0, i32 0), i32 %add_result)
  %helloworld_helper_result = call i8* @helloworld_helper(i8* getelementptr inbounds ([14 x i8], [14 x i8]* @1, i32 0, i32 0))
  %printf13 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([4 x i8], [4 x i8]* @fmt.1, i32 0, i32 0), i8* %helloworld_helper_result)
  call void @ascii(i8* getelementptr inbounds ([9 x i8], [9 x i8]* @2, i32 0, i32 0))
  ret i32 0
}

```

```

define i32 @add(i32 %y, i32 %x) {
entry:
  %y1 = alloca i32
  store i32 %y, i32* %y1
  %x2 = alloca i32
  store i32 %x, i32* %x2
  %x3 = load i32, i32* %x2
  %y4 = load i32, i32* %y1
  %tmp = add i32 %x3, %y4
  ret i32 %tmp
}

define i8* @helloworld_helper(i8* %x) {
entry:
  %x1 = alloca i8*
  store i8* %x, i8** %x1
  %x2 = load i8*, i8** %x1
  ret i8* %x2
}

```

jumbo in GoBackwards

```

func main() {
  ascii("jumbo.png");
}

```

jumbo in LLVM

```

; ModuleID = 'GoBackwards'

@fmt = private unnamed_addr constant [4 x i8] c"%d\0A\00"
@fmt.1 = private unnamed_addr constant [4 x i8] c"%s\0A\00"
@0 = private unnamed_addr constant [10 x i8] c"jumbo.png\00"

declare i32 @printf(i8*, ...)

declare void @ascii(i8*)

define i32 @main() {
entry:
  call void @ascii(i8* getelementptr inbounds ([10 x i8], [10 x i8]* @0, i32 0, i32 0))
  ret i32 0
}

```


We used a test suite based on the `./testall.sh` in MicroC. `./test.sh` will run every test in the program, while `./test.sh -k` will preserve the files used in the tests to allow us to see the output of the programs.

`./test.sh`

```
#!/bin/sh

# Regression testing script for GoBackwards
# Step through a list of files
# Compile, run, and check the output of each expected-to-work test
# Compile and check the error of each expected-to-fail test

# Path to the LLVM interpreter
#THIS ONE IS FOR PETER (IT IS THE ONE USED IN MICROC)
# LLI="lli"
#THIS ONE IS FOR SHAQUAN:
LLI="/usr/local/opt/llvm/bin/lli"

# Path to the LLVM compiler
#THIS ONE IS FOR PETER (IT IS THE ONE USED IN MICROC)
# LLC="llc"
#THIS ONE IS FOR SHAQUAN:
LLC="/usr/local/opt/llvm/bin/llc"

# Path to the C compiler
CC="cc"

# Path to the gobackwards compiler.
GOBACKWARDS="./gobackwards.native"

# Set time limit for all operations
ulimit -t 30

globallog=testall.log
rm -f $globallog
error=0
globalerror=0

keep=0

Usage() {
    echo "Usage: test.sh [options] [.gob files]"
    echo "-k      Keep intermediate files"
    echo "-h      Print this help"
    exit 1
}
```

```

SignalError() {
    if [ $error -eq 0 ] ; then
        echo "FAILED"
        error=1
    fi
    echo "  $1"
}

# Compare <outfile> <reffile> <difffile>
# Compares the outfile with reffile.  Differences, if any, written
to difffile
Compare() {
    generatedfiles="$generatedfiles $3"
    echo diff -b $1 $2 ">" $3 1>&2
    diff -b "$1" "$2" > "$3" 2>&1 || {
        SignalError "$1 differs"
        echo "FAILED $1 differs from $2" 1>&2
    }
}

# Run <args>
# Report the command, run it, and report any errors
Run() {
    echo $* 1>&2
    eval $* || {
        SignalError "$1 failed on $*"
        return 1
    }
}

# RunFail <args>
# Report the command, run it, and expect an error
RunFail() {
    echo $* 1>&2
    eval $* && {
        SignalError "failed: $* did not report an error"
        return 1
    }
    return 0
}

Check() {
    error=0
    basename=`echo $1 | sed 's/.*\\//\\
                s/.gob//'\`
    reffile=`echo $1 | sed 's/.gob$//'\`
    basedir="`echo $1 | sed 's/\\/[^\\/]*/$//'\`/."
}

```

```

echo -n "$basename....."

echo 1>&2
echo "##### Testing $basename" 1>&2

generatedfiles=""

generatedfiles="$generatedfiles ${basename}.ll ${basename}.s
${basename}.exe ${basename}.out" &&
Run "$GOBACKWARDS" "$1" ">" "${basename}.ll" &&
Run "$LLC" "${basename}.ll" ">" "${basename}.s" &&
Run "$CC" "-o" "${basename}.exe" "${basename}.s" "ascii.o"
"-lm" &&
Run "./${basename}.exe" > "${basename}.out" &&
Compare ${basename}.out ${reffile}.out ${basename}.diff

# Report the status and clean up the generated files

if [ $error -eq 0 ] ; then
  if [ $keep -eq 0 ] ; then
    rm -f $generatedfiles
  fi
  echo "OK"
  echo "##### SUCCESS" 1>&2
else
  echo "##### FAILED" 1>&2
  globalerror=$error
fi
}

CheckFail() {
  error=0
  basename=`echo $1 | sed 's/.*\\\/\//
s/.gob//'\`
  reffile=`echo $1 | sed 's/.gob$//'\`
  basedir="`echo $1 | sed 's/\/[\^\/]*$//'\`/."

  echo -n "$basename....."

  echo 1>&2
  echo "##### Testing $basename" 1>&2

  generatedfiles=""

  generatedfiles="$generatedfiles ${basename}.err
${basename}.diff" &&

```

```

RunFail "$GOBACKWARDS" "<" $1 "2>" "${basename}.err" ">>"
$globallog &&
Compare ${basename}.err ${reffile}.err ${basename}.diff

# Report the status and clean up the generated files

if [ $error -eq 0 ] ; then
  if [ $keep -eq 0 ] ; then
    rm -f $generatedfiles
  fi
  echo "OK"
  echo "##### SUCCESS" 1>&2
else
  echo "##### FAILED" 1>&2
  globalerror=$error
fi
}

while getopts kdpsh c; do
  case $c in
    k) # Keep intermediate files
        keep=1
        ;;
    h) # Help
        Usage
        ;;
  esac
done

shift `expr $OPTIND - 1`

LLIFail() {
  echo "Could not find the LLVM interpreter \"$LLI\"."
  echo "Check your LLVM installation and/or modify the LLI variable
in testall.sh"
  exit 1
}

which "$LLI" >> $globallog || LLIFail

if [ ! -f ascii.o ]
then
  echo "Could not find ascii.o"
  echo "Try \"make ascii.o\""
  exit 1
fi

```

```

if [ $# -ge 1 ]
then
    files=$@
else
    files="tests/helloworld.gob tests/ascii.gob tests/jumbo.gob
tests/test-*.gob tests/fail-*.gob"
fi

for file in $files
do
    case $file in
    *helloworld*)
        Check $file 2>> $globallog
        ;;
    *ascii*)
        Check $file 2>> $globallog
        ;;
    *jumbo*)
        Check $file 2>> $globallog
        ;;
    *test-*)
        Check $file 2>> $globallog
        ;;
    *fail-*)
        CheckFail $file 2>> $globallog
        ;;
    *)
        echo "unknown file type $file"
        globalerror=1
        ;;
    esac
done

exit $globalerror

```

Shaquan also used a legacy file called `exe.sh` during initial development.

./exe.sh

```

#!/bin/sh

# Regression testing script for GoBackwards
# Step through a list of files
# Compile, run, and check the output of each expected-to-work test
# Compile and check the error of each expected-to-fail test

```

```

# Path to the LLVM interpreter
# LLI="lli"
LLI="/usr/local/opt/llvm/bin/lli"

# Path to the LLVM compiler
# LLC="llc"
LLC="/usr/local/opt/llvm/bin/llc"

# Path to the C compiler
CC="cc"

# Path to the gobackwards compiler.
GOBACKWARDS="./gobackwards.native"

# Set time limit for all operations
ulimit -t 30

globallog=testall.log
rm -f $globallog
error=0
globalerror=0

keep=0

Usage() {
    echo "Usage: testall.sh [options] [.gob files]"
    echo "-k  Keep intermediate files"
    echo "-h  Print this help"
    exit 1
}

SignalError() {
    if [ $error -eq 0 ] ; then
        echo "FAILED"
        error=1
    fi
    echo " $1"
}

# Run <args>
# Report the command, run it, and report any errors
Run() {
    echo $* 1>&2
    eval $* || {
        SignalError "$1 failed on $"
        return 1
    }
}

```

```

}

# RunFail <args>
# Report the command, run it, and expect an error
RunFail() {
    echo $* 1>&2
    eval $* && {
        SignalError "failed: $* did not report an error"
        return 1
    }
    return 0
}

Check() {
    error=0
    basename=`echo $1 | sed 's/.*\///
                s/.gob/'`
    reffile=`echo $1 | sed 's/.gob$/'`
    basedir=""`echo $1 | sed 's/^[^\/]*$//'.`

    echo -n "$basename....."

    echo 1>&2
    echo "##### Testing $basename" 1>&2
    generatedfiles=""

    generatedfiles="$generatedfiles ${basename}.ll ${basename}.s ${basename}.exe ${basename}.out"
    &&
    Run "$GOBACKWARDS" "$1" ">" "${basename}.ll" &&
    Run "$LLC" "${basename}.ll" ">" "${basename}.s" &&
    Run "$CC" "-o" "${basename}.exe" "${basename}.s" &&
    # Run "chmod +x" "${basename}.exe"
    Run "./${basename}.exe"

    # Report the status and clean up the generated files
}

while getopts kdpsh c; do
    case $c in
        k) # Keep intermediate files
            keep=1
            ;;
        h) # Help
            Usage
            ;;
    )

```

```

    esac
done

shift `expr $OPTIND - 1`

LLIFail() {
    echo "Could not find the LLVM interpreter \"$LLI\"."
    echo "Check your LLVM installation and/or modify the LLI variable in testall.sh"
    exit 1
}

which "$LLI" >> $globallog || LLIFail

if [ $# -ge 1 ]
then
    files=$@
else
    echo "No args inserted. Using HelloWorld test case."
    files="tests/helloworld.gob"
fi

for file in $files
do
    case $file in $file)
        Check $file 2>> $globallog
        ;;
    esac
done

exit $globalerror

```

In the end, most tests were chosen to try to break the language. After we made sure the basic functionality worked (Can ascii call .jpg .png and .gif?), we tried to put ourselves in the shoes of the user and think about what mistakes they could possibly make, and if they would get an error message or not when they made those mistakes. The goal here was to think about the craziest thing they could do. Divide by zero? Try to call ascii on an integer? Call a non existent image? Call the image with the wrong extension? Use the incorrect print function on a certain type? The goal was to create an almost closed system, where the user would never be left with a situation where nothing happened. Either they would get an error message or the program would run flawlessly. Every testing action was in pursuit of that goal.

Regarding automation, the shell files were the main source of it. Shaquan did the testing for the initial functionalities from MicroC and for the arrays, Peter flushed out the test suite and did testing for the ascii function, and Julian worked on some of the more sophisticated program tests such as the Fibonacci program.

Lessons Learned

Shaquan Nelson

I learned just how capable I am. As a group manager, I had a heavy burden. I was the overseer, the doer, and then some. When things needed to get done, I found myself spending sleepless nights infiltrating the documentation of the LLVM, making CFG's (which I had to learn while also taking this class) to test my thoughts on the AST and many more learning about how to lead a team. My team constantly looked at me for direction and I was forced to not only take charge but also know the ins-and-outs of my language. As the only junior, I was first very afraid of leading my peers because I felt that they were smarter and knew more but quickly found that I was an equal. I enjoyed working with Julian to rework the parser and implement the func keyword. I was mind-blown by the ability of TA's like Freddy Kellison-Linn to help me understand how OCaml actually works. Doing this project made me realize that I am smarter than I thought I was. In the future, I will know how to handle group projects that take time, patience, and tons of testing. I now know more than before how important both planning and getting things done are important to creating a cohesive unit that accomplishes a task.

Julian Silerio

I learned two very important lessons over the course of the semester. First, this project requires a certain level of attentiveness every single week, such that falling behind one week will almost certainly be detrimental to the project's overall success. Although our original proposal was pretty ambitious given our level of expertise in OCaml, our struggle to work on a consistent basis on this project was ultimately the biggest detriment to our project's overall success, and I think that, had we established a more consistent schedule and really gotten the project rolling earlier in the semester, we would have had more success and implemented more of what we had set out to do. Second, I learned the importance of picking good team members who won't be dropping the class halfway through the semester. We originally started the project as a five person group but ultimately finished the project as just the three of us who are listed in this proposal, and the lack of extra hands to help coupled with the overall lack of faith these former teammates had in our project definitely put a damper on our project. The fact that a student could just get up and switch teams or drop the class despite committing to a group deeply affected our overall group dynamic, and it's these types of situations that discourage students from taking classes with group projects in general.

Peter Richards

I enjoyed this project and by extension this class for the most part. Before taking it, I hadn't given compilers much thought, mentally thinking of them as an almost black box where programs were error checked and brought to life. After really getting in the trenches this semester with my team and working on a functional compiler, I have a newfound appreciation for how a compiler works and how clever and

sophisticated it can be. If I had any advice for those coming after me, it's that doing four group projects in a semester is a bad idea, because at any given moment three groups are upset you're not working for them. While I found it incredibly frustrating that half of our team left midway through the project, shifting the blame completely on others is not something I want to do, nor should it be done. I'm grateful for the hard work put in by my teammates and the relentless energy they poured into the code, especially in the last week.

I think trying to pretend group members left for no reason is deceitful, and speaks to a larger lesson I learned was about leadership. The best leaders are humble and respectful, because they know that an effective team can accomplish more than they can alone. The best leaders make those around them feel valued and worthwhile with effective communication and a commitment to treating everyone fairly. Leaders like that communicate, set deadlines, don't skip class, are on time for meetings, and make an effort to have a larger view of the project as a whole. Selfish and disrespectful leadership on the other hand doesn't communicate effectively, belittles team members, and constantly searches for affirmation. Interacting with leadership like that is difficult, because it can be hard to know what to do to accomplish a larger goal if the goal isn't clear. Additionally, it can be hard to ask questions and learn or bring up errors or mistakes, for fear of retribution. In the end, being a leader is a position of service, service to the team and its goals. Leaders who believe the team revolves around them end up inflating their work and crippling the team. I don't think this project started very auspiciously, but the team came together in the end and shipped a compiling, functional language. I'm glad I saw it through to the end.

Appendix

The following is the code of GoBackwards, gathered in three sections. The first is all the files of the language itself, the second is the complete test suite, and the third is `ascii.c`, the library we used to allow GoBackwards to turn images into ascii.

```
ast.ml
---
(* Abstract Syntax Tree and functions for printing it *)

type op = Add | Sub | Mult | Div | Equal | Neq | Less | Leq | Greater | Geq | And | Or
type uop = Neg | Not
type typ = Int | Bool | Void | String | ArrayType of typ * int

type bind = typ * string

type expr =
  Literal of int
  | BoolLit of bool
  | Id of string
  | Strlit of string
  | Binop of expr * op * expr
  | Unop of uop * expr
  | Assign of expr * expr
  | Call of string * expr list
  | Noexpr
  | AccessArray of string * expr

type stmt =
  | Block of stmt list
  | Expr of expr
  | Return of expr
  | If of expr * stmt * stmt
  | For of expr * expr * expr * stmt
  | While of expr * stmt

and signature = {
  formals : bind list;
  ret_typ : typ;
}

and body = {
  locals: bind list;
  stmts: stmt list;
}

and fdecl = {
  fname : string;
  signature : signature;
  body : body;
}

type program = bind list * fdecl list

(* Pretty-printing functions *)

let string_of_op = function
  Add -> "+"
  | Sub -> "-"
  | Mult -> "*"
  | Div -> "/"
  | Equal -> "=="
  | Neq -> "!="
  | Less -> "<"
  | Leq -> "<="
  | Greater -> ">"
  | Geq -> ">="
  | And -> "&&"
  | Or -> "||"
```

```

let string_of_uop = function
  Neg -> "-"
  | Not -> "!"

let rec string_of_typ = function
  Int -> "int"
  | Bool -> "bool"
  | Void -> "void"
  | String -> "string"
  | ArrayType(t,_) -> string_of_typ t

let rec string_of_expr = function
  Literal(l) -> string_of_int l
  | Strlit(p) -> p
  | BoolLit(true) -> "true"
  | BoolLit(false) -> "false"
  | Id(s) -> s
  | AccessArray( s , e2) -> s ^ "[" ^ string_of_expr e2 ^ "]"
  | Binop(e1, o, e2) ->
    string_of_expr e1 ^ " " ^ string_of_op o ^ " " ^ string_of_expr e2
  | Unop(o, e) -> string_of_uop o ^ string_of_expr e
  | Assign(v, e) -> string_of_expr v ^ " = " ^ string_of_expr e
  | Call(f, el) ->
    f ^ "(" ^ String.concat ", " (List.map string_of_expr el) ^ ")"
  | Noexpr -> ""

let rec string_of_stmt = function
  Block(stmts) ->
    "{\n" ^ String.concat "" (List.map string_of_stmt stmts) ^ "}\n"
  | Expr(expr) -> string_of_expr expr ^ ";\n";
  | Return(expr) -> "return " ^ string_of_expr expr ^ ";\n";
  | If(e, s, Block([])) -> "if (" ^ string_of_expr e ^ ")\n" ^ string_of_stmt s
  | If(e, s1, s2) -> "if (" ^ string_of_expr e ^ ")\n" ^
    string_of_stmt s1 ^ "else\n" ^ string_of_stmt s2
  | For(e1, e2, e3, s) ->
    "for (" ^ string_of_expr e1 ^ " ; " ^ string_of_expr e2 ^ " ; " ^
    string_of_expr e3 ^ ") " ^ string_of_stmt s
  | While(e, s) -> "while (" ^ string_of_expr e ^ ") " ^ string_of_stmt s

let string_of_vdecl (t, id) = string_of_typ t ^ " " ^ id ^ ";\n"

let string_of_fdecl fdecl =
  string_of_typ fdecl.signature.ret_typ ^ " " ^
  fdecl.fname ^ "(" ^ String.concat ", " (List.map snd fdecl.signature.formals) ^
  ")\n{\n" ^
  String.concat "" (List.map string_of_vdecl fdecl.body.locals) ^
  String.concat "" (List.map string_of_stmt fdecl.body.stmts) ^
  "}\n"

let string_of_program (vars, funcs) =
  String.concat "" (List.map string_of_vdecl vars) ^ "\n" ^
  String.concat "\n" (List.map string_of_fdecl funcs)

```

codegen.ml

(* Code generation: translate takes a semantically checked AST and produces LLVM IR

LLVM tutorial: Make sure to read the OCaml version of the tutorial

<http://llvm.org/docs/tutorial/index.html>

Detailed documentation on the OCaml LLVM library:

<http://llvm.moe/>

<http://llvm.moe/ocaml/>

```

*)

module L = Llvml
module A = Ast

module StringMap = Map.Make(String)

let translate (globals, functions) =
  let context = L.global_context () in
  let the_module = L.create_module context "GoBackwards"
  and i32_t = L.i32_type context
  and i8_t = L.i8_type context
  and i1_t = L.i1_type context
  and str_t = L.pointer_type (L.i8_type context)
  and array_t = L.array_type
  and void_t = L.void_type context in

  let ltype_of_typ = function
    | A.Int -> i32_t
    | A.Bool -> i1_t
    | A.String -> str_t
    | A.ArrayType(t, s) -> (match t with
      | A.Int -> array_t i32_t s
      | A.String -> array_t str_t s
      | A.Bool -> array_t i1_t s
      | _ -> raise(Failure("Undeclarable Array Type")))
    )
    | A.Void -> void_t in

  (* Declare each global variable; remember its value in a map *)
  let global_vars =
    let global_var m (t, s) =
      let init = L.const_int (ltype_of_typ t) 0
      in StringMap.add s (L.define_global s init the_module) m in
    List.fold_left global_var StringMap.empty globals in
  (* List.map (global_var StringMap.empty) globals in *)

  (* Declare printf(), which the print built-in function will call *)
  let printf_t = L.var_arg_function_type i32_t [| L.pointer_type i8_t |] in
  let printf_func = L.declare_function "printf" printf_t the_module in

  (* Declare the built-in ascii() function *)
  (*L.VAR_ARG_FUNCTION_TYPE--> WE'RE TAKING A FUNCTION:
  declare i32 @ascii(i8*, ...)
  WHICH WE DON'T WANT TO DO

  I_32T--> OUR RETURN TYPE IS I32 WHICH ISN'T THE RETURN TYPE OF THE ASCII FUNCTION.
  WE WANT A VOID TYPE.
  *)
  let ascii_t = L.function_type void_t [| L.pointer_type i8_t |] in
  let ascii_func = L.declare_function "ascii" ascii_t the_module in

  (* Define each function (arguments and return type) so we can call it *)
  let function_decls =
    let function_decl m fdecl =
      let name = fdecl.A.fname in
      let formal = let open A in fdecl.A.signature.formals in
      let ret = let open A in fdecl.A.signature.A.ret_typ in
      let formal_types = Array.of_list (List.map (fun (t,_) -> ltype_of_typ t) formal)
    in
    let ftype = L.function_type (ltype_of_typ ret) formal_types in
    StringMap.add name (L.define_function name ftype the_module, fdecl) m in
    List.fold_left function_decl StringMap.empty functions in

  (* Fill in the body of the given function *)
  let build_function_body fdecl =
    let (the_function, _) = StringMap.find fdecl.A.fname function_decls in
    let builder = L.builder_at_end context (L.entry_block the_function) in

```

```

let int_format_str = L.build_global_stringptr "%d\n" "fmt" builder in
let str_format_str = L.build_global_stringptr "%s\n" "fmt" builder in

(* Construct the function's "locals": formal arguments and locally
   declared variables. Allocate each on the stack, initialize their
   value, if appropriate, and remember their values in the "locals" map *)

let local_vars =
  let add_formal m (t, n) p = L.set_value_name n p ;
    let local = L.build_alloca (ltype_of_ttyp t) n builder in
    ignore (L.build_store p local builder);

    StringMap.add n local m in

let add_local m(t,n) =
  let local_var = L.build_alloca (ltype_of_ttyp t) n builder in
  StringMap.add n local_var m in

  let open A in let formals = List.fold_left2 add_formal StringMap.empty fdecl.sig
nature.A.formals
  (Array.to_list (L.params the_function)) in List.fold_left add_local formals
fdecl.A.body.locals in

(* Return the value for a variable or formal argument *)
let lookup n = try StringMap.find n local_vars
  with Not_found -> try StringMap.find n global_vars
  with Not_found -> raise (Failure ("undeclared variable " ^ n))
in

(*helper function to access arrays*)
let build_array_alloc s p1 p2 builder b1 =
  if b1
  then L.build_gep (lookup s) [|p1; p2|] s builder
  else
  L.build_load( L.build_gep (lookup s) [|p1; p2|] s builder) s builder
in

(* helper function to check arrays *)
let rec array_expression_check e = match e with
  | A.Literal i -> i
  | A.Binop (e1, op, e2) -> (match op with
  | A.Add -> (array_expression_check e1) + ( array_expression_check e2)
  | A.Sub -> (array_expression_check e1) - ( array_expression_check e2)
  | A.Mult -> (array_expression_check e1) * ( array_expression_check e2)
  | A.Div -> (array_expression_check e1) / ( array_expression_check e2)
  | _ -> 0
  )
  | _ -> 0
in

let array_lookup_helper = List.fold_left (fun m(t,n) -> StringMap.add n t m)
StringMap.empty (globals @ let open A in fdecl.A.signature.formals @ fdecl.A.b
ody.locals)
in

let array_helper s =
  let s1 = array_lookup_helper in
  StringMap.find s s1
in

(* Construct code for an expression; return its value *)
let rec expr builder = function
  A.Literal i -> L.const_int i32_t i

```

```

    | A.BoolLit b -> L.const_int i1_t (if b then 1 else 0)
    | A.Strlit s -> let ptr = L.build_global_string ((String.sub s 1 ((String.length
s) - 2))) "" builder in L.build_gep ptr [|L.const_int i32_t 0 ; L.const_int i32_t 0|]
"" builder
    | A.Noexpr -> L.const_int i8_t 0
    | A.Id s -> L.build_load (lookup s) s builder
    | A.AccessArray(t,e1)-> let e' = expr builder e1 in (
        match( array_helper t) with
            A.ArrayType(_,1)-> (
                if (array_expression_check e1) >= 1 then raise(Failure("Array out
of Bounds"))
                else build_array_alloc t (L.const_int i32_t 0) e' builder false
            )
            | _ ->build_array_alloc t (L.const_int i32_t 0) e' builder false
        )
    | A.Binop (e1, op, e2) ->
        let e1' = expr builder e1
        and e2' = expr builder e2 in
        (match op with
            A.Add -> L.build_add
            | A.Sub -> L.build_sub
            | A.Mult -> L.build_mul
            | A.Div -> L.build_sdiv
            | A.And -> L.build_and
            | A.Or -> L.build_or
            | A.Equal -> L.build_icmp L.Icmp.Eq
            | A.Neq -> L.build_icmp L.Icmp.Ne
            | A.Less -> L.build_icmp L.Icmp.Slt
            | A.Leq -> L.build_icmp L.Icmp.Sle
            | A.Greater -> L.build_icmp L.Icmp.Sgt
            | A.Geq -> L.build_icmp L.Icmp.Sge
        ) e1' e2' "tmp" builder
    | A.Unop(op, e) ->
        let e' = expr builder e in
        (match op with
            A.Neg -> L.build_neg
            | A.Not -> L.build_not) e' "tmp" builder
    | A.Assign (e1,e2) ->
        let e1' = ( match e1 with
            A.Id s -> lookup s
            | A.AccessArray(t, e1) -> let e' = expr builder e1 in (match (array_he
lper t) with
                A.ArrayType(_,1)->(
                    if(array_expression_check e1)>= 1 then raise(Failure("Array
out of bounds"))
                    else build_array_alloc t (L.const_int i32_t 0) e' builder tr
ue)
                | _ -> build_array_alloc t (L.const_int i32_t 0) e' builder true)
            | _ -> raise(Failure( "illegal left assignment"))
        )
        and e2' = expr builder e2
        in ignore (L.build_store e2' e1' builder); e2'

    | A.Call ("print", [e])

    | A.Call ("printb", [e]) ->
        L.build_call printf_func [| int_format_str ; (expr builder e) |]
        "printf" builder

    | A.Call ("println", [e]) ->
        L.build_call printf_func [| str_format_str ; (expr builder e) |]
        "printf" builder

    (*BECAUSE WE HAVE CHANGED THE TYPE, WE NEED TO MAKE SURE WE ARE CALLING THE RIGH
T YPE.
    [| str_format_str ; (expr builder e) |] -->THIS ARRAY IS PASSED TO THE CALL.
    WE ONLY WANT ONE PARAMETER.

```



```

(* Build the code for each statement in the function *)
let builder = stmt builder (A.Block fdecl.A.body.stmts) in

(* Add a return if the last block falls off the end *)
add_terminal builder (match fdecl.A.signature.ret_typ with
  A.Void -> L.build_ret_void
  | t -> L.build_ret (L.const_null (ltype_of_typ t)))
in

List.iter build_function_body functions;
the_module

gobackwards.ml
---
(* Top-level of the GoBackwards compiler: scan & parse the input,
   check the resulting AST, generate LLVM IR, and dump the module *)

module StringMap = Map.Make(String)

type action = Ast | LLVM_IR | Compile

let _ =
  let action = ref Compile in
  let set_action a () = action := a in
  let speclist = [
    ("-a", Arg.Unit (set_action Ast), "Print the SAST");
    ("-l", Arg.Unit (set_action LLVM_IR), "Print the generated LLVM IR");
    ("-c", Arg.Unit (set_action Compile), "Check and print the generated LLVM IR (default)");
  ] in

  let usage_msg = "usage: ./gobackwards.native [-a|-l|-c] [file.mc]" in
  let channel = ref stdin in
  Arg.parse speclist (fun filename -> channel := open_in filename) usage_msg;
  let lexbuf = Lexing.from_channel !channel in
  let ast = Parser.program Scanner.token lexbuf in
  Semant.check ast;
  match !action with
  Ast -> print_string (Ast.string_of_program ast)
  | LLVM_IR -> print_string (Llvm.string_of_llmodule (Codegen.translate ast))
  | Compile -> let m = Codegen.translate ast in
    Llvm_analysis.assert_valid_module m;
    print_string (Llvm.string_of_llmodule m)

gobackwards.txt
---

parser.mly
---
/* Ocaml yacc parser for GoBackwards */

%{ open Ast %}

%token SEMI LPAREN RPAREN LBRACE RBRACE COMMA STRING_TOKEN LBRACKET RBRACKET
%token PLUS MINUS TIMES DIVIDE ASSIGN NOT
%token EQ NEQ LT LEQ GT GEQ TRUE FALSE AND OR
%token RETURN IF ELSE FOR WHILE INT BOOL STRING VOID FUNC VAR

%token <int> LITERAL
%token <string> ID
%token <string> STRINGLIT
%token EOF

%nonassoc NOELSE
%nonassoc ELSE
%right ASSIGN
%left OR
%left AND
%left EQ NEQ

```

```

%left LT GT LEQ GEQ
%left PLUS MINUS
%left TIMES DIVIDE
%right NOT NEG

%start program
%type <Ast.program> program

%%

program:
  decls EOF { $1 }

decls:
  /* nothing */ { [], [] }
  | decls vdecl { ($2 :: fst $1), snd $1 }
  | decls fdecl { fst $1, ($2 :: snd $1) }

block:
  LBRACE locals_list stmt_list RBRACE
  { { locals = List.rev $2;
      stmts = List.rev $3 } }

fdecl:
  FUNC ID signature block
  { { fname = $2;
      signature = $3;
      body = $4 } }

signature:
  LPAREN formals_opt RPAREN typ_opt
  { { formals = List.rev $2;
      ret_typ = $4 } }

formals_opt:
  /* nothing */ { [] }
  | formal_list { List.rev $1 }

formal_list:
  ID typ { [($2,$1)] }
  | formal_list COMMA ID typ { ($4,$3) :: $1 }

typ_opt:
  { Int } /* nothing */
  | typ { $1 }

typ:
  INT { Int }
  | BOOL { Bool }
  | STRING { String }
  | array_type {$1}
  | VOID { Void }

array_type:
  | LBRACKET LITERAL RBRACKET typ { ArrayType($4, $2) }

vdecl:
  VAR ID typ SEMI {($3,$2)}

/* NOW WE HAVE TO DO ASSIGNMENTS*/
stmt_list:
  /* nothing */ { [] }
  | stmt_list stmt { $2 :: $1 }

locals_list:

```

```

/* nothing */ { [] }
| locals_list vdecl { $2 :: $1 }

stmt:
  expr SEMI { Expr($1) }
| RETURN SEMI { Return Noexpr }
| RETURN expr SEMI { Return $2 }
| LBRACE stmt_list RBRACE { Block(List.rev $2) }
| IF LPAREN expr RPAREN stmt %prec NOELSE { If($3, $5, Block([])) }
| IF LPAREN expr RPAREN stmt ELSE stmt { If($3, $5, $7) }
| FOR LPAREN expr_opt SEMI expr SEMI expr_opt RPAREN stmt
  { For($3, $5, $7, $9) }
| WHILE LPAREN expr RPAREN stmt { While($3, $5) }

expr_opt:
  /* nothing */ { Noexpr }
| expr { $1 }

expr:
  LITERAL { Literal($1) }
| TRUE { BoolLit(true) }
| FALSE { BoolLit(false) }
| STRINGLIT { Strlit($1) }
| ID { Id($1) }
| expr PLUS expr { Binop($1, Add, $3) }
| expr MINUS expr { Binop($1, Sub, $3) }
| expr TIMES expr { Binop($1, Mult, $3) }
| expr DIVIDE expr { Binop($1, Div, $3) }
| expr EQ expr { Binop($1, Equal, $3) }
| expr NEQ expr { Binop($1, Neq, $3) }
| expr LT expr { Binop($1, Less, $3) }
| expr LEQ expr { Binop($1, Leq, $3) }
| expr GT expr { Binop($1, Greater, $3) }
| expr GEQ expr { Binop($1, Geq, $3) }
| expr AND expr { Binop($1, And, $3) }
| expr OR expr { Binop($1, Or, $3) }
| MINUS expr %prec NEG { Unop(Neg, $2) }
| NOT expr { Unop(Not, $2) }
| expr ASSIGN expr { Assign($1, $3) }
| ID LPAREN actuals_opt RPAREN { Call($1, $3) }
| LPAREN expr RPAREN { $2 }
| ID LBRACKET expr RBRACKET { AccessArray($1,$3) }

actuals_opt:
  /* nothing */ { [] }
| actuals_list { List.rev $1 }

actuals_list:
  expr { [$1] }
| actuals_list COMMA expr { $3 :: $1 }

scanner.mll
---
(* Ocamllex scanner for GoBackwards *)

{ open Parser }

rule token = parse
  [' ' '\t' '\r' '\n'] { token lexbuf } (* Whitespace *)
| "/" "*" { comment lexbuf } (* Comments *)
| '(' { LPAREN }
| ')' { RPAREN }
| '{' { LBRACE }
| '}' { RBRACE }
| '[' { LBRACKET }
| ']' { RBRACKET }
| ';' { SEMI }
| ',' { COMMA }

```

```

| '+'      { PLUS }
| '-'      { MINUS }
| '*'      { TIMES }
| '/'      { DIVIDE }
| '='      { ASSIGN }
| "=="     { EQ }
| "!="     { NEQ }
| '<'      { LT }
| "<="     { LEQ }
| ">"      { GT }
| ">="     { GEQ }
| "&&"     { AND }
| "||"     { OR }
| "!"      { NOT }
| "if"     { IF }
| "else"   { ELSE }
| "for"    { FOR }
| "while"  { WHILE }
| "return" { RETURN }
| "int"    { INT }
| "bool"   { BOOL }
| "string" { STRING }
| "void"   { VOID }
| "true"   { TRUE }
| "false"  { FALSE }
| "func"   { FUNC }
| "var"    { VAR }
| ['0'-'9']+ as lxm { LITERAL(int_of_string lxm) }
| '"'[^\n']*'"' as lxm { STRINGLIT(lxm) }
| ['a'-'z' 'A'-'Z']['a'-'z' 'A'-'Z' '0'-'9' '_' ]* as lxm { ID(lxm) }
| eof { EOF }
| _ as char { raise (Failure("illegal character " ^ Char.escaped char)) }

```

```

and comment = parse
  "*/" { token lexbuf }
| _    { comment lexbuf }

```

```
semant.ml
```

```
---
```

```
(* Semantic checking for the GoBackwards compiler *)
```

```
open Ast
```

```
module StringMap = Map.Make(String)
```

```
(* Semantic checking of a program. Returns void if successful,
throws an exception if something is wrong.
```

```
Check each global variable, then check each function *)
```

```
let check (globals, functions) =
```

```
(* Raise an exception if the given list has a duplicate *)
```

```
let report_duplicate exceptf list =
```

```
let rec helper = function
```

```
  n1 :: n2 :: _ when n1 = n2 -> raise (Failure (exceptf n1))
```

```
  | _ :: t -> helper t
```

```
  | [] -> ()
```

```
in helper (List.sort compare list)
```

```
in
```

```
(* Raise an exception if a given binding is to a void type *)
```

```
let check_not_void exceptf = function
```

```
  (Void,n) -> raise (Failure (exceptf n))
```

```
  | _ -> ()
```

```
in
```

```
(* Raise an exception if the given rvalue type cannot be assigned to
```

```

    the given lvalue type *)
let check_assign lvaluet rvaluet err =
  if lvaluet == rvaluet then lvaluet else raise err
in

(**** Checking Global Variables ****)

List.iter (check_not_void (fun n -> "illegal void global " ^ n)) globals;
report_duplicate (fun n -> "duplicate global " ^ n) (List.map snd globals);

(**** Checking Functions ****)

if List.mem "print" (List.map (fun fd -> fd.fname) functions)
then raise (Failure ("function print may not be defined")) else ();

if List.mem "ascii" (List.map (fun fd -> fd.fname) functions)
then raise (Failure ("function ascii may not be defined")) else ();

report_duplicate (fun n -> "duplicate function " ^ n)
  (List.map (fun fd -> fd.fname) functions);

(* Function declaration for a named function *)
let built_in_decls =

  StringMap.add "print"
  {
    fname = "print";
    signature = { ret_typ = Void; formals = [(Int, "x")] };
    body = { locals = []; stmts = [] }
  }
  ( StringMap.add "println"
    { fname = "println";
      signature = { ret_typ = Void; formals = [(String, "x")] };
      body = { locals = []; stmts = [] }}

    ( StringMap.add "printb"
      { fname = "printb";
        signature = { ret_typ = Void; formals = [(Bool, "x")] };
        body = { locals = []; stmts = [] }}

      ( StringMap.add "ascii"
        { fname = "ascii";
          signature = { ret_typ = Void; formals = [(String, "x")] };
          body = { locals = []; stmts = [] }}

        StringMap.empty)))

  (*the parentheses will return a stringmap with println*)
  (*the top level stringmap will add athe stringmap with println*)

in

  let function_decls = List.fold_left (fun m fd -> StringMap.add fd.fname {fname = f
d.fname; signature = fd.signature; body=fd.body} m)
    built_in_decls functions
  in

  let function_decl s = try StringMap.find s function_decls
    with Not_found -> raise (Failure ("unrecognized function " ^ s))
  in

  let _ = function_decl "main" in (* Ensure "main" is defined *)

  let check_function func =

    List.iter (check_not_void (fun n -> "illegal void formal " ^ n ^
      " in " ^ n)) func.body.locals;

```

```

report_duplicate (fun n -> "duplicate formal " ^ n ^ " in " ^ func.fname)
  (List.map snd func.signature.formals);

List.iter (check_not_void (fun n -> "illegal void local " ^ n ^
  " in " ^ func.fname)) func.body.locals;

report_duplicate (fun n -> "duplicate local " ^ n ^ " in " ^ func.fname)
  (List.map snd func.body.locals);

(* Type of each variable (global, formal, or local *)
let symbols = List.fold_left (fun m (t, n) -> StringMap.add n t m)
  StringMap.empty (globals @ func.signature.formals @ func.body.locals )
in

let type_of_identifier s =
  try StringMap.find s symbols
  with Not_found -> raise (Failure ("undeclared identifier " ^ s))
in

let check_array_access = function
  ArrayType(t,_) -> t
  | _ -> raise(Failure("illegal attempt at accessing array"))
in

(* Return the type of an expression or throw an exception *)
let rec expr = function
  Literal _ -> Int
  | Strlit _ -> String
  | BoolLit _ -> Bool
  | Id s -> type_of_identifier s
  | Binop(e1, op, e2) as e -> let t1 = expr e1 and t2 = expr e2 in
    (match op with
      Add | Sub | Mult | Div when t1 = Int && t2 = Int -> Int
      | Equal | Neq when t1 = t2 -> Bool
      | Less | Leq | Greater | Geq when t1 = Int && t2 = Int -> Bool
      | And | Or when t1 = Bool && t2 = Bool -> Bool
      | _ -> raise (Failure ("illegal binary operator "
        ^
          string_of_typ t1 ^ " " ^ string_of_op op ^ " " ^
          string_of_typ t2 ^ " in " ^ string_of_expr e))
    )
  | Unop(op, e) as ex -> let t = expr e in
    (match op with
      Neg when t = Int -> Int
      | Not when t = Bool -> Bool
      | _ -> raise (Failure ("illegal unary operator "
        ^ string_of_uop op ^
          string_of_typ t ^ " in " ^ string_of_expr ex
          )))
  | AccessArray(t ,e2)-> let _ = (match(expr e2) with
    Int -> Int
    | _ -> raise(Failure ("arrays can only be accessed through integers")))
    in check_array_access (type_of_identifier t)
  | Noexpr -> Void
  | Assign(e1, e2) as ex -> let lt = (match e1 with
    | AccessArray(t,_) -> (match (type_of_identifier t) with
      | ArrayType(t,_) -> (match t with
        Int -> Int
        | Bool-> Bool
        | String-> String
        | _ -> raise(Failure("illegal array assignment")))
      | _ -> raise(Failure("illegal left assignment" ) )
    )
    | _-> expr e1)
    and rt = expr e2
    in check_assign lt rt (Failure("Illegal assignment " ^ string_of_typ lt ^

```

```

" = " ^
    string_of_typ rt ^ " in " ^ string_of_expr ex))

| Call(fname, actuals) as call -> let fd = function_decl fname in
  if List.length actuals != List.length fd.signature.formals then
    raise (Failure ("expecting " ^ string_of_int
      (List.length fd.signature.formals) ^ " arguments in " ^ string_of_expr ca
ll
    ))
  else
    List.iter2 (fun (ft,_) e -> let et = expr e in
      ignore (check_assign ft et
        (Failure ("illegal actual argument found "
          ^ string_of_typ et ^
            " expected " ^ string_of_typ ft ^ " in " ^ string_of_expr e
          )))
      fd.signature.formals actuals;
      fd.signature.ret_typ
    in

let check_bool_expr e = if expr e != Bool
then raise (Failure ("expected Boolean expression in " ^ string_of_expr e
))
else () in

(* Verify a statement or throw an exception *)
let rec stmt = function
  Block sl -> let rec check_block = function
    [Return _ as s] -> stmt s
    | Return _ :: _ -> raise (Failure "nothing may follow a return")
    | Block sl :: ss -> check_block (sl @ ss)
    | s :: ss -> stmt s ; check_block ss
    | [] -> ()
  in check_block sl
  | Expr e -> ignore (expr e)
  | Return e -> let t = expr e in if t = func.signature.ret_typ then () else
    raise (Failure ("return gives " ^ string_of_typ t ^ " expected " ^
      string_of_typ func.signature.ret_typ ^ " in " ^ string_of_exp
r e
    ))

  | If(p, b1, b2) -> check_bool_expr p; stmt b1; stmt b2
  | For(e1, e2, e3, st) -> ignore (expr e1); check_bool_expr e2;
    ignore (expr e3); stmt st
  | While(p, s) -> check_bool_expr p; stmt s
in

stmt (Block func.body.stmts)

in
List.iter check_function functions

test.sh
---
#!/bin/sh

# Regression testing script for GoBackwards
# Step through a list of files
# Compile, run, and check the output of each expected-to-work test
# Compile and check the error of each expected-to-fail test

# Path to the LLVM interpreter
#THIS ONE IS FOR PETER (IT IS THE ONE USED IN MICROC)
# LLI="lli"

```

```

#THIS ONE IS FOR SHAQUAN:
LLI="/usr/local/opt/llvm/bin/lli"

# Path to the LLVM compiler
#THIS ONE IS FOR PETER (IT IS THE ONE USED IN MICROC)
# LLC="llc"
#THIS ONE IS FOR SHAQUAN:
LLC="/usr/local/opt/llvm/bin/llc"

# Path to the C compiler
CC="cc"

# Path to the gobackwards compiler.
GOBACKWARDS="./gobackwards.native"

# Set time limit for all operations
ulimit -t 30

globallog=testall.log
rm -f $globallog
error=0
globalerror=0

keep=0

Usage() {
    echo "Usage: testall.sh [options] [.gob files]"
    echo "-k    Keep intermediate files"
    echo "-h    Print this help"
    exit 1
}

SignalError() {
    if [ $error -eq 0 ] ; then
        echo "FAILED"
        error=1
    fi
    echo " $1"
}

# Compare <outfile> <reffile> <difffile>
# Compares the outfile with reffile. Differences, if any, written to difffile
Compare() {
    generatedfiles="$generatedfiles $3"
    echo diff -b $1 $2 ">" $3 1>&2
    diff -b "$1" "$2" > "$3" 2>&1 || {
        SignalError "$1 differs"
        echo "FAILED $1 differs from $2" 1>&2
    }
}

# Run <args>
# Report the command, run it, and report any errors
Run() {
    echo $* 1>&2
    eval $* || {
        SignalError "$1 failed on $*"
        return 1
    }
}

# RunFail <args>
# Report the command, run it, and expect an error
RunFail() {
    echo $* 1>&2
    eval $* && {
        SignalError "failed: $* did not report an error"
        return 1
    }
}

```



```

    return 0
}

Check() {
    error=0
    basename=`echo $1 | sed 's/.*\\\/\\\/
                s/.gob//'\`
    reffile=`echo $1 | sed 's/.gob$//'\`
    basedir=`echo $1 | sed 's/\[/[^\]/]*$//'\`/."

    echo -n "$basename....."

    echo 1>&2
    echo "##### Testing $basename" 1>&2

    generatedfiles=""

    generatedfiles="$generatedfiles ${basename}.ll ${basename}.s ${basename}.exe ${bas
ename}.out" &&
    Run "$GOBACKWARDS" "$1" ">" "${basename}.ll" &&
    Run "$LLC" "${basename}.ll" ">" "${basename}.s" &&
    Run "$CC" "-o" "${basename}.exe" "${basename}.s" "ascii.o" "-lm" &&
    Run "./${basename}.exe" > "${basename}.out" &&
    Compare ${basename}.out ${reffile}.out ${basename}.diff

    # Report the status and clean up the generated files

    if [ $error -eq 0 ] ; then
        if [ $keep -eq 0 ] ; then
            rm -f $generatedfiles
        fi
        echo "OK"
        echo "##### SUCCESS" 1>&2
    else
        echo "##### FAILED" 1>&2
        globalerror=$error
    fi
}

CheckFail() {
    error=0
    basename=`echo $1 | sed 's/.*\\\/\\\/
                s/.gob//'\`
    reffile=`echo $1 | sed 's/.gob$//'\`
    basedir=`echo $1 | sed 's/\[/[^\]/]*$//'\`/."

    echo -n "$basename....."

    echo 1>&2
    echo "##### Testing $basename" 1>&2

    generatedfiles=""

    generatedfiles="$generatedfiles ${basename}.err ${basename}.diff" &&
    RunFail "$GOBACKWARDS" "<" $1 "2>" "${basename}.err" ">>" $globallog &&
    Compare ${basename}.err ${reffile}.err ${basename}.diff

    # Report the status and clean up the generated files

    if [ $error -eq 0 ] ; then
        if [ $keep -eq 0 ] ; then
            rm -f $generatedfiles
        fi
        echo "OK"
        echo "##### SUCCESS" 1>&2
    else
        echo "##### FAILED" 1>&2
        globalerror=$error
    fi
}

```

```

}

while getopts kdpsh c; do
    case $c in
        k) # Keep intermediate files
            keep=1
            ;;
        h) # Help
            Usage
            ;;
    esac
done

shift `expr $OPTIND - 1`

LLIFail() {
    echo "Could not find the LLVM interpreter \"$LLI\"."
    echo "Check your LLVM installation and/or modify the LLI variable in testall.sh"
    exit 1
}

which "$LLI" >> $globallog || LLIFail

if [ ! -f ascii.o ]
then
    echo "Could not find ascii.o"
    echo "Try \"make ascii.o\""
    exit 1
fi

if [ $# -ge 1 ]
then
    files=$@
else
    files="tests/helloworld.gob tests/ascii.gob tests/jumbo.gob tests/test-*.gob tests
/fail-*.gob"
fi

for file in $files
do
    case $file in
        *helloworld*)
            Check $file 2>> $globallog
            ;;
        *ascii*)
            Check $file 2>> $globallog
            ;;
        *jumbo*)
            Check $file 2>> $globallog
            ;;
        *test-*)
            Check $file 2>> $globallog
            ;;
        *fail-*)
            CheckFail $file 2>> $globallog
            ;;
        *)
            echo "unknown file type $file"
            globalerror=1
            ;;
    esac
done

exit $globalerror

```



```
}

fail-dead2.err
---
Fatal error: exception Failure("nothing may follow a return")

fail-dead2.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func main() {
    var i int;

    {
        i = 15;
        return i;
    }
    i = 32; /* Error: code after a return */
}

fail-for1.err
---
Fatal error: exception Failure("undeclared identifier j")

fail-for1.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func main() {
    var i int;

    for ( ; true ; ) {} /* OK: Forever */

    for (i = 0 ; i < 10 ; i = i + 1) {
        if (i == 3) return 42;
    }

    for (j = 0; i < 10 ; i = i + 1) {} /* j undefined */

    return 0;
}

fail-for2.err
---
Fatal error: exception Failure("undeclared identifier j")

fail-for2.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func main()
{
    var i int;

    for (i = 0; j < 10 ; i = i + 1) {} /* j undefined */

    return 0;
}
```

```
fail-for4.err
---
Fatal error: exception Failure("undeclared identifier j")

fail-for4.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func main() {
    var i int;
    for (i = 0; i < 10 ; i = j + 1) {} /* j undefined */
    return 0;
}

fail-for5.err
---
Fatal error: exception Failure("unrecognized function foo")

fail-for5.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func main() {
    var i int;
    for (i = 0; i < 10 ; i = i + 1) {
        foo(); /* Error: no function foo */
    }
    return 0;
}

fail-func1.err
---
Fatal error: exception Failure("duplicate function bar")

fail-func1.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

func foo() {}

func bar() {}

func baz() {}

func bar() {} /* Error: duplicate function bar */

func main()
{
    return 0;
}

fail-global1.err
---
Fatal error: exception Failure("illegal void global a")

fail-global1.gob
---
```

```
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
var c int;  
var b bool;  
var a void; /* global variables should not be void */
```

```
func main()  
{  
    return 0;  
}
```

```
fail-global2.err
```

```
---  
Fatal error: exception Failure("duplicate global b")
```

```
fail-global2.gob
```

```
---  
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
var b int;  
var c bool;  
var b int; /* Duplicate global variable */
```

```
func main()  
{  
    return 0;  
}
```

```
fail-if2.err
```

```
---  
Fatal error: exception Failure("undeclared identifier foo")
```

```
fail-if2.gob
```

```
---  
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
func main()  
{  
    if (true) {  
        foo; /* Error: undeclared variable */  
    }  

```

```
fail-if3.err
```

```
---  
Fatal error: exception Failure("undeclared identifier bar")
```

```
fail-if3.gob
```

```
---  
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
func main()  
{  
    if (true) {  
        42;  
    } else {  

```



```
func main() {
    print(text);
}
```

```
fail-while.err
```

```
---
Fatal error: exception Failure("unrecognized function foo")
```

```
fail-while.gob
```

```
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/
```

```
func main()
{
    var i int;

    while (true) {
        i = i + 1;
    }

    while (true) {
        foo(); /* foo undefined */
    }
}
```

```
helloworld.gob
```

```
---
/*
@author: Peter Richards, pfr2109
@source: https://gobyexample.com/values
@testing: print statements
*/
```

```
func main() {
    println("Hello World!");
}
```

```
helloworld.out
```

```
---
Hello World!
```

```
jumbo.gob
```

```
---
/*
@author: Peter Richards, pfr2109
@testing: Program for the final presentation
*/
```

```
func main() {
    ascii("jumbo.png");
}
```

```
jumbo.out
```

```
---
55ZZZgggZZBRZRRZ#ZRRR55RRRMZR5RMM&gZZgMgg#$5&MAphMbdFQMg#EZgg#FMFWF$TabrT*VMpy5$QFFFMM
#MFFM#MMZ0#@#bg#ggYT7!7yj7TTMQFFdgR#RZ5
gggM#ggZgZ#R#RZMZ#5M5ZZM5gg$Zggggggggg#RgFF*KyyyyPyd#TdFZFF#5ggg&yMPj7wggyaayMFTTT7yTF
77T7TT7wFLTF'TT7TTTF*ryaTb*4gbyagg5TFMgg
gggg#RZgggRgggZgWRMg$Z$gF5MFMM55MMM#R#Zg$FFTmaM#dg&&yL7TFZgggFMFTybyyyTT77TLy7[77jT7[
?+^??jT[jw[j[_j7TTwyMMPyy&MWggFMFydg#
E5RBRg#ZMgg0R5FFgdFFMMMMWggggMZgMMF5ZRZggggPMggFTdPFTy*yF5M5EZFTM777TT777777777!???!
__(~??jw*jj?!7=wyT*m7TTMFag#5RTRggFMg
g0gZgZ5RR5M5M5MFTT*TTTTTMMMMMgMFFggggRZ5FRgdWF4gP*j*TV*PLjTPThww7tu77kl+?+?+^~+~+~`
~:','~v??7tzJtx=JT4w7O[7*aTM#g*TyyM&d5
##RZR#Rg#Wgggbyyyyyyay4TdMTNTM5QFFTMMFMMZQdg&7M&w7uulwyT7??77!????=??!^_~--`'.''. . . .
```



```

        printb(false);
    }

test-1.out
---
1
1
0

test-2.gob
---
/*
@author: Shaquan Nelson, sdn2115

@source: https://gobyexample.com/functions
@source: https://gobyexample.com/multiple-return-values
@testing: helper functions in GoB.

STRUCTURE OF NON-MAIN FUNCTIONS :
    func id(parameters) (return types) { inner_code }
*/

func main() {
    print(helper_function());
    println(helper_function2());
    printb(helper_function3());
    print(helper_function4(3,4));
}

func helper_function() int{
    return(1);
}

func helper_function2() string{
    return("hi");
}

func helper_function3() bool{
    return(true);
}

/* we will not do multiple return values
func helper_function4() (string,bool) {
    return "hi", true;
}
*/

/* formatting of locals: ID typ*/
func helper_function4(x int, y int) int {
    return x + y;
}

test-2.out
---
1
hi
1
7

test-add1.gob
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

```

tests.txt

```
func add(x int, y int)
{
    return x + y;
}
```

```
func main()
{
    print( add(17, 25) );
    return 0;
}
```

```
test-add1.out
```

```
---
42
```

```
test-array.gob
```

```
---
func main() {

    var array[5] int;
    var stringarray[2] string;

    array[3] = 100;

    stringarray[0] = "Hello";
    stringarray[1] = "World!";

    print( array[4] );

    print(array[3]);

    println(stringarray[0]);
    println(stringarray[1]);

}
```

```
test-array.out
```

```
---
1
100
Hello
World!
```

```
test-ascii-cat.gob
```

```
---
/*
@author: Peter Richards, pfr2109
@testing: Calling ascii with another image
*/

func main() {
    ascii("cat.jpg");
}
```

```
test-ascii-cat.out
```

```
---
#####
#####$7j
#####_ja
#####^Iy7
#####E[L[(4F7_LlT_?7w
#####V*!!J7ki?[u(?L
#####y7y*)}~T/\_rjw
```

tests.txt

```

~~~~~&j[u+i?<_ilx7?
~~~~~P?=[wvU+Lf=!vv
~~~~~P!_T?*p?q^.[>(
~~~~~#5[~_o()bI4\{7x~
~~~~~@EFaL_[+7j7uirIv*a
~~~~~EF5gdg*?7vv^~?'_?x;j
~~~~~E#PTdFFLo[vos{q;yLlT*[o
~~~~~@#gRbgFFL7T[wy4TF(TP7Y[?
~~~~~#FMFFTFT[^!D[~7wT#g*Oq[^!
EEEEEE#FTOJ7[j=7?jP?!_?;?)+^+`~~,j
~~~~~ERT[^X[[lJ??jT!+_xyeuuxvLjrV
~~~#0yy__?=_?[jgMD~^japP[!T7{vq
E#MTTTF*r=~!7_d5FT_|lVU7=Ix_,>!d
F?~?IuY7!l>|_`d*77hl~>jY[]j[?_"T
#uj!_j_jjLyyggT?v-]+_`{?+?!Ij?`~3
~~~~~yjjIj#~~#ggj__LyggE

```

test-ascii-functions.gob

```

---
/*
@author: Peter Richards, pfr2109
@testing: Calling Functions while also using ascii
*/

func helper_function() int{
    return(1);
}

func helper_function2() string{
    return("hi");
}

func main() {
    print(helper_function());
    ascii("star.png");
    println(helper_function2());
}

```

test-ascii-functions.out

```

---
1
~~~~~!#~~~~~
~~~~~`J~~~~~
~~~~~F`~~~~~
~~~~~EEEEEEEE!`#EEEEEEEE~~~~~
~~~~~`T~~~~~g
~~~~~F`~~~~~g
~~~~~!`#~~~~~g
~~~~~`T~~~~~g
~~~~~F`~~~~~v~~~~~g
~~~~~!`#~~~~~g
~~~~~`T~~~~~g
~~~~~F`~~~~~.~~~~~g
~~~~~!`#~~~~~g
~~~~~.~~~~~T~~~~~g
~~~~~F.~~~~~.~~~~~g
~~~~~gggg!..#gggg~~~~~
~~~~~.~~~~~T~~~~~E~~~~~
~~~~~F.~~~~~.~~~~~E~~~~~
~~~~~!..@~~~~~E~~~~~
MMF*****77777!!!!!!'...'?????77777*****9MM
l.....#
~Y,....._#
~#/.....!.....w~
~u.....g~
~g,....!...j@~
~@_.....!..a~~~~~
~u.....!..g~~~~~
~g,.....j~~~~~

```



```

~~~~~&*`..g~~~~~u..`v~~~~~
~~~~~&!`j@~~~~~g;`#~~~~~
~~~~~&`d~~~~~gggggggggggu`T~~~~~
~~~~~F`j@~~~~~g,`"~~~~~
~~~~~!`a~~~~~@~~~~~@u`@~~~~~
~~~~~`j@~~~~~@~~~~~y,$~~~~~

```

```
test-basicmath.gob
```

```

---
/*
@author: Peter Richards, pfr2109
@source: https://gobyexample.com/values
@testing: Basic math
*/

```

```

func main() {
    print(4 + 5);
    print(5 * 6);
    print(2 - 1);
    print(8 / 4);
}

```

```
test-basicmath.out
```

```

---
9
30
1
2

```

```
test-example.gob
```

```

---
/* explicit types of parameters and return value */
func helloworld_helper(x string) string{
    return(x);
}

/* multiple parameters and expressions in returns */
func add(x int, y int) int {
    return x + y;
}

/*main method is needed to run any gobackwards function*/
func main(){
    /* implicit declarations */
    var s1 string;
    var i1 int;
    var b1 bool;

    /* explicit declarations */
    var s2 string;
    var i2 int;
    var b2 bool;

    /*like in C, we need to allocate storage before delcaring variables*/
    s2 = "hi";
    i2 = 10;
    b2 = false;
}

```



```

~~~~~[...`w_...@~~~~~
~~~~~T~~~~~
~~~~~@E#...g~Y,..."~~~~~
~~~~~&*`w~#_...~~~~~
~~~~~&`g~u...#~~~~~
~~~~~&@`j~#/....T~~~~~
~~~~~&*`g~u...v~~~~~
~~~~~&!`j@~g;`#~~~~~
~~~~~&`d~gggggggggggggu`T~~~~~
~~~~~F`j@~@~g,`"~~~~~
~~~~~!`a~@~@u`@~~~~~
~~~~~`j@~@~@Y,$~~~~~

```

```
test-fib.gob
```

```

---
/*
@author: Peter Richards, pfr2109; Julian Silerio, jjs2245
@source: Based on MicroC's test suite
@testing: integration test via fibonacci sequence
*/

```

```

func fib(x int) {
    if (x < 2) return 1;
    return fib(x-1) + fib(x-2);
}

func main()
{
    var x int;
    for (x = 0 ; x < 6 ; x = x + 1) {
        print (fib(x));
    }

    return 0;
}

```

```
test-fib.out
```

```

---
1
1
2
3
5
8

```

```
test-forloop.gob
```

```

---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/

```

```

func main() {

    var i int;
    for (i = 0 ; i < 5 ; i = i + 1) {
        print (i);
    }
    return 0;
}

```

```
test-forloop.out
```

```

---
0
1
2
3
4

```

```
test-global2.gob
```

```
---
```

```
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
var i bool;
```

```
func main()
```

```
{  
    var i int; /* Should hide the global i */  
  
    i = 42;  
    print(i + i);  

```

```
test-global2.out
```

```
---
```

```
84
```

```
test-negatives.gob
```

```
---
```

```
/*  
@author: Peter Richards, pfr2109  
@testing: Negative Numbers (this was not working when were using i8, I have no idea wh  
y we were using i8)  
*/
```

```
func main() {  
    print(-20);  
    print(300 - 500);  
    print(--30);  
}
```

```
test-negatives.out
```

```
---
```

```
-20  
-200  
30
```

```
test-PEMDAS.gob
```

```
---
```

```
/*  
@author: Peter Richards, pfr2109  
@testing: Classic PEMDAS  
*/
```

```
func main() {  
    print(40 - 2 * 6);  
    print(4 * (6 - 2));  
    print(40 - 20 / 10);  
    print((40 / 20) - 1);  

```

```
test-PEMDAS.out
```

```
---
```

```
28  
16  
38  
1  
16  
32  
42  
12
```


test-printint.gob

```
---
/*
@author: Peter Richards, pfr2109
@source: https://gobyexample.com/values
@testing: print actually prints an int
*/
```

```
func main() {
    print(1);
}
```

test-printint.out

```
---
1
```

test-println.gob

```
---
/*
@author: Peter Richards, pfr2109
@source: https://gobyexample.com/values
@testing: println actually makes new line
*/
```

```
func main() {
    println("First Line");
    println("Second Line");
    println("3");
}
```

test-println.out

```
---
First Line
Second Line
3
```

tests.txt

```
---
```

test-truncate.gob

```
---
/*
@author: Peter Richards, pfr2109
@testing: Are decimals truncated? How is this treated?
*/
```

```
func main() {
    print(5/2);
    print(5/3); /*truncates, is this what you intended Shaquan?*/
    print(4/3);
}
```

test-truncate.out

```
---
2
1
1
```

test-var.gob

```
---
/*
From MicroC. Making sure nothing we are doing is breaking what already works.
*/
```

```
func main()
{
    var a int;
    a = 42;
```

```
    print(a);  
    return 0;  
}
```

test-var.out

```
---  
42
```

test-whileloop.gob

```
---  
/*  
From MicroC. Making sure nothing we are doing is breaking what already works.  
*/
```

```
func main() {  
    var i int;  
    i = 5;  
    while (i > 0) {  
        print(i);  
        i = i - 1;  
    }  
    print(42);  
    return 0;  
}
```

test-whileloop.out

```
---  
5  
4  
3  
2  
1  
42
```

```
ascii.c
```

```
---
```

```
/*
```

```
This is the C Library I found to turn pictures into ASCII. I got it from here: https://github.com/symisc/ascii\_art
```

```
None of this code is mine or my groups. The only changes I made were to combine the library into one huge C file, write a new function called ascii that takes in a string (the file name) and turns it into ASCII, and prints it. Printbig was very helpful in this effort, as was the sample code on github (https://github.com/symisc/ascii\_art/blob/master/sample.c)
```

```
It requires the math library, so if you try to compile it without test.sh make sure to include the -lm flag.
```

```
-Peter
```

```
*/
```

```
/*
```

```
* ASCII Art: Real-time ASCII Art Rendering Library.
```

```
* Copyright (C) PixLab. https://pixlab.io/art
```

```
* Version 1.2
```

```
* For information on licensing, redistribution of this file, and for a DISCLAIMER OF ALL WARRANTIES
```

```
* please contact:
```

```
*     support@pixlab.io
```

```
*     contact@pixlab.io
```

```
* or visit:
```

```
*     https://pixlab.io/art
```

```
*/
```

```
/*
```

```
* An Implementation based on the paper:
```

```
* > N. Markus, M. Fratarcangeli, I. S. Pandzic and J. Ahlberg, "Fast Rendering of Image Mosaics and ASCII Art", Computer Graphics Forum, 2015, http://dx.doi.org/10.1111/cgf.12597
```

```
*/
```

```
#if defined (_MSC_VER) || defined (__MINGW32__) || defined (__GNUC__) && defined (__declspec)
```

```
#define ART_APIEXPORT __declspec(dllexport)
```

```
#else
```

```
#define ART_APIEXPORT
```

```
#endif
```

```
#ifndef INDEX_MATRIX_SZ
```

```
#define INDEX_MATRIX_SZ 640 * 480
```

```
#endif
```

```
typedef struct ascii_render ascii_render;
```

```
struct ascii_render
```

```
{
```

```
    int nGlyphs;
```

```
    unsigned char* zGlyphs[256];
```

```
    unsigned char zMatrix[INDEX_MATRIX_SZ];
```

```
    int nRows;
```

```
    int nCols;
```

```
    int* pTree;
```

```
};
```

```
ART_APIEXPORT void AsciiArtInit(ascii_render *pRender);
```

```
ART_APIEXPORT unsigned int AsciiArtTextBufSize(ascii_render *pRender, int img_width, int img_height);
```

```
ART_APIEXPORT void AsciiArtRender(ascii_render *pRender, unsigned char *zPixel /*IN/OUT*/, int *pnWidth /*IN/OUT*/, int *pnHeight /*IN/OUT*/, unsigned char *zBuf/* Optional /OUT */, int Optimize);
```

```
ART_APIEXPORT unsigned char * AsciiArtLoadImage(const char *zPath, int *pWidth, int *pHeight);
```

```
#include <string.h>
#include <stdint.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>

void ascii(char *s) {
    ascii_render sRender; /* Stack allocated */

    unsigned char *zText, *zBlob;
    int width, height;
    unsigned int nBytes;

    /* Initialize the render structure */
    AsciiArtInit(&sRender);

    /* Load the target image */
    zBlob = AsciiArtLoadImage(s, &width, &height);

    /* Allocate a buffer big enough to hold the entire text output */
    nBytes = AsciiArtTextBufSize(&sRender, width, height);
    zText = malloc(nBytes);

    /* Finally, process */
    AsciiArtRender(&sRender, zBlob, &width, &height, zText, 1);

    /* Output the result */
    /*fwrite(zText, sizeof(char), nBytes, stdout);*/
    unsigned int i;
    for (i = 0; i < nBytes; i++) {
        putchar(zText[i]);
    }

    /* zBlob[] hold the binary ASCII glyphs now */

    /* Release memory */
    free(zText);
    free(zBlob);
}

#ifdef BUILD_TEST
int main() {
    char *s = "star.png";
    ascii(s);
    return 0;
}
#endif

#define ABS(x) ((x<0)?(-x):(x))

double power (double X, int Y)
{
    int i;
    double value = 1;

    if (Y == 0)
    {
        return 1.0;
    }
    else if (X == 0)
    {
        return 0.0;
    }
}
```



```

0x0, 0x0, 0x0, 0xff, 0xff, 0xff, 0xff, 0xff, 0x0, 0x0, 0xff, 0x0, 0x0,
0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0xff, 0xff, 0xff, 0xff, 0x0, 0x0, 0x0,
0x0, 0x0, 0x0, 0x0, 0x0, 0xff, 0x0, 0x0, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff,
0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0xff,
0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0x0, 0xff, 0x0, 0x0, 0x0, 0x0, 0x0, 0xff,
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, 0x1, 0x5, 0x4, 0x4f, 0x1, 0x7, 0x6, 0x55, 0x1, 0x3, 0x7, 0x78, 0x1, 0x5, 0x6, 0x84,
0x1, 0x4, 0x6, 0x67, 0x1, 0x4, 0x3, 0x5a, 0x1, 0x0, 0x3, 0x4f, 0x1, 0x7, 0x7, 0xad, 0x
1, 0x4, 0x1, 0x36, 0x1, 0x7, 0x6, 0x4c, 0x1, 0x7, 0x0, 0x55, 0x1, 0x0, 0x4, 0x64, 0x1,
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x3, 0x1, 0x5b, 0x1, 0x0, 0x4, 0x5a, 0x1, 0x2, 0x1, 0x5c, 0x1, 0x4, 0x2, 0x64, 0x1, 0x3
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0x75, 0x1, 0x3, 0x7, 0x5b, 0x1, 0x1, 0x4, 0x69, 0x1, 0x7, 0x2, 0x68, 0x1, 0x2, 0x3, 0x73, 0x1, 0x0, 0x2, 0x66, 0x1, 0x0, 0x5, 0x6c, 0x1, 0x6, 0x5, 0x74, 0x1, 0x5, 0x3, 0x68, 0x1, 0x6, 0x2, 0x6b, 0x1, 0x4, 0x7, 0x74, 0x1, 0x3, 0x1, 0x78, 0x1, 0x4, 0x6, 0x8a, 0x1, 0x7, 0x7, 0x75, 0x1, 0x6, 0x5, 0x8d, 0x1, 0x7, 0x0, 0x88, 0x1, 0x4, 0x6, 0xbc, 0x1, 0x2, 0x1, 0x71, 0x1, 0x2, 0x3, 0x79, 0x1, 0x7, 0x1, 0x83, 0x1, 0x1, 0x1, 0xe8, 0x1, 0x4, 0x0, 0x55, 0x1, 0x4, 0x1, 0x59, 0x1, 0x2, 0x5, 0x75, 0x1, 0x5, 0x0, 0x4e, 0x1, 0x0, 0x1, 0x9e, 0x1, 0x6, 0x0, 0xbb, 0x1, 0x4, 0x6, 0xa3, 0x1, 0x6, 0x4, 0x83, 0x1, 0x5, 0x1, 0x57, 0x1, 0x3, 0x3, 0x5f, 0x1, 0x6, 0x2, 0x67, 0x1, 0x7, 0x3, 0x68, 0x1, 0x6, 0x5, 0x80, 0x1, 0x2, 0x1, 0x94, 0x1, 0x7, 0x1, 0x6c, 0x1, 0x5, 0x1, 0xf2, 0x1, 0x0, 0x7, 0xcd, 0x1, 0x5, 0x7, 0x93, 0x1, 0x5, 0x6, 0x77, 0x1, 0x3, 0x6, 0x8a, 0x1, 0x1, 0x6, 0x54, 0x1, 0x6, 0x4, 0x85, 0x1, 0x6, 0x1, 0x82, 0x1, 0x4, 0x2, 0x9d, 0x1, 0x6, 0x0, 0x6b, 0x1, 0x4, 0x1, 0xd7, 0x1, 0x6, 0x5, 0x76, 0x1, 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0xce, 0x1, 0x4, 0x4, 0x7c, 0x1, 0x2, 0x1, 0x5f, 0x1, 0x7, 0x3, 0xb2, 0x1, 0x1, 0x1, 0x77, 0x1, 0x3, 0x7, 0x9a, 0x1, 0x1, 0x6, 0x74, 0x1, 0x1, 0x6, 0x88, 0x1, 0x1, 0x7, 0xc3, 0x1, 0x1, 0x1, 0x81, 0x1, 0x5, 0x6, 0xba, 0x1, 0x3, 0x6, 0x71, 0x1, 0x5, 0x3, 0xef, 0x1, 0x2, 0x2, 0x61, 0x1, 0x7, 0x7, 0x49, 0x1, 0x1, 0x1, 0xc7, 0x1, 0x0, 0x4, 0x8f, 0x1, 0x4, 0x4, 0xbb, 0x1, 0x7, 0x6, 0x8e, 0x1, 0x1, 0x6, 0x8b, 0x1, 0x3, 0x6, 0x48, 0x1, 0x6, 0x1, 0x93, 0x1, 0x6, 0x1, 0x5f, 0x1, 0x1, 0x6, 0x81, 0x1, 0x0, 0x3, 0xa3, 0x1, 0x1, 0x3, 0xbe, 0x1, 0x2, 0x3, 0x6e, 0x1, 0x0, 0x2, 0x9f, 0x1, 0x6, 0x1, 0x80, 0x1, 0x1, 0x7, 0xce, 0x1, 0x6, 0x7, 0x9b, 0x1, 0x7, 0x7, 0xc0, 0x1, 0x1, 0x1, 0x9c, 0x1, 0x1, 0x1, 0xbb, 0x1, 0x6, 0x6, 0x8e, 0x1, 0x6, 0x1, 0x7c, 0x1, 0x5, 0x2, 0x56, 0x1, 0x6, 0x0, 0x5b, 0x1, 0x2, 0x7, 0x99, 0x1, 0x2, 0x0, 0x99, 0x1, 0x6, 0x4, 0xa6, 0x1, 0x3, 0x0, 0x95, 0x1, 0x0, 0x4, 0x7f, 0x1, 0x5, 0x7, 0xc5, 0x1, 0x3, 0x5, 0x52, 0x1, 0x2, 0x4, 0x82, 0x1, 0x0, 0x6, 0x6c, 0x1, 0x6, 0x2, 0x7f, 0x1, 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x7, 0x46, 0x1, 0x0, 0x5, 0xc9, 0x1, 0x3, 0x3, 0x1e, 0x1, 0x6, 0x1, 0x62, 0x1, 0x5, 0x1, 0x33, 0x1, 0x3, 0x1, 0x3d, 0x1, 0x6, 0x3, 0x3e, 0x1, 0x4, 0x1, 0x31, 0x1, 0x7, 0x2, 0x39, 0x1, 0x6, 0x3, 0x3d, 0x1, 0x1, 0x5, 0x3b, 0x1, 0x7, 0x2, 0x3c, 0x1, 0x0, 0x5, 0x39, 0x1, 0x1, 0x5, 0x3b, 0x1, 0x2, 0x3, 0x36, 0x1, 0x2, 0x5, 0x38, 0x1, 0x1, 0x3, 0x38, 0x1, 0x1, 0x5, 0x3b, 0x1, 0x6, 0x7, 0x2d, 0x1, 0x5, 0x6, 0x31, 0x1, 0x0, 0x3, 0x3e, 0x1, 0x6, 0x3, 0x41, 0x1, 0x3, 0x1, 0x31, 0x1, 0x2, 0x5, 0x37, 0x1, 0x4, 0x3, 0x41, 0x1, 0x3, 0x5, 0x35, 0x1, 0x0, 0x4, 0x44, 0x1, 0x0, 0x7, 0x35, 0x1, 0x4, 0x3, 0x3e, 0x1, 0x6, 0x3, 0x3d, 0x1, 0x0, 0x3, 0x3c, 0x1, 0x0, 0x6, 0x3c, 0x1, 0x1, 0x5, 0x3c, 0x1, 0x6, 0x1, 0x3f, 0x1, 0x4, 0x1, 0x2c, 0x1, 0x5, 0x7, 0x31, 0x1, 0x1, 0x5, 0x3e, 0x1, 0x5, 0x7, 0x34, 0x1, 0x4, 0x3, 0x39, 0x1, 0x7, 0x3, 0x3e, 0x1, 0x1, 0x3, 0x39, 0x1, 0x0, 0x6, 0x3d, 0x1, 0x0, 0x6, 0x3d, 0x1, 0x0, 0x6, 0x3a, 0x1, 0x1, 0x4, 0x39, 0x1, 0x5, 0x1, 0x41, 0x1, 0x0, 0x2, 0x3d, 0x1, 0x4, 0x6, 0x35, 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0x1, 0x5, 0x3, 0x72, 0x1, 0x1, 0x2, 0x6f, 0x1, 0x5, 0x4, 0x74, 0x1, 0x0, 0x1, 0x75, 0x1, 0x3, 0x4, 0x75, 0x1, 0x6, 0x3, 0x72, 0x1, 0x7, 0x3, 0x7a, 0x1, 0x2, 0x4, 0x71, 0x1, 0x2, 0x3, 0x77, 0x1, 0x6, 0x3, 0x75, 0x1, 0x7, 0x6, 0x7d, 0x1, 0x2, 0x5, 0x72, 0x1, 0x2, 0x5, 0x6e, 0x1, 0x5, 0x6, 0x53, 0x1, 0x0, 0x5, 0x6f, 0x1, 0x1, 0x2, 0x73, 0x1, 0x6, 0x5, 0x7b, 0x1, 0x4, 0x7, 0x63, 0x1, 0x1, 0x1, 0x1, 0x6e, 0x1, 0x2, 0x2, 0x6d, 0x1, 0x2, 0x2, 0x72, 0x1, 0x6, 0x5, 0x74, 0x1, 0x0, 0x5, 0x79, 0x1, 0x2, 0x3, 0x71, 0x1, 0x3, 0x3, 0x70, 0x1, 0x2, 0x3, 0x72, 0x1, 0x2, 0x3, 0x75, 0x1, 0x2, 0x3, 0x79, 0x1, 0x6, 0x6, 0x9f, 0x1, 0x5, 0x1, 0x71, 0x1, 0x3, 0x5, 0x6f, 0x1, 0x0, 0x5, 0x78, 0x1, 0x4, 0x5, 0x73, 0x1, 0x2, 0x4, 0x72, 0x1, 0x0, 0x3, 0x7f, 0x1, 0x4, 0x5, 0x7f, 0x1, 0x5, 0x6, 0x88, 0x1, 0x2, 0x4, 0x7e, 0x1, 0x6, 0x5, 0x75, 0x1, 0x3, 0x0, 0x8d, 0x1, 0x4, 0x1, 0x7c, 0x1, 0x3, 0x6, 0x71, 0x1, 0x4, 0x1, 0x7f, 0x1, 0x6, 0x5, 0xb7, 0x1, 0x1, 0x0, 0xd8, 0x1, 0x4, 0x2, 0x49, 0x1, 0x1, 0x0, 0x62, 0x1, 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x5e, 0x0, 0x0, 0x3e, 0x0, 0x0, 0x3f, 0x0, 0x0, 0x2, 0x0, 0x0, 0x0, 0x1e
, 0x0, 0x0, 0x3e, 0x0, 0x0, 0x3e, 0x0, 0x0, 0x3e, 0x0, 0x0, 0x0, 0x3e,


```

static const unsigned char glyph_char_table[] =
{
    ' ', '!', '"', '#', '$', '%', '&', '\\', '(', ')', '*', '+', ',', '-', '.', '/'
    ,
    '0', '1', '2', '3', '4', '5', '6', '7', '8', '9', ':', ';', '<', '=', '>', '?'
    ,
    '@', 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O'
    ,
    'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', '[', '\\', ']', '^', '_'
    ,
    '`', 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o'
    ,
    'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', '{', '|', '}', '~'
};
/*
 * Portion based on the work of Nenad Markus n3ar.
 */
static void parse_art_model(uint8_t** ppixels, int* n, int* nrows, int* ncols, int32_t
** tree, const uint8_t pack[])
{
    int i, k;
    *n = *(int*)&pack[0 * sizeof(int)];
    *nrows = *(int*)&pack[1 * sizeof(int)];
    *ncols = *(int*)&pack[2 * sizeof(int)];
    k = 3 * sizeof(int);
    for (i = 0; i < *n; ++i) {
        ppixels[i] = (uint8_t*)&pack[k];
        k = k + *nrows**ncols;
    }
    *tree = (int32_t*)&pack[k];
}
#define BINTEST(r, c, t, pixels, ldim) ( (pixels)[((r)*(ldim))+c] > (t) )
/*
 * Portion based on the work of Nenad Markus n3ar.
 */
static int get_tree_output(int32_t* tree, uint8_t* pixels, int ldim)
{
    uint8_t* n = (uint8_t*)&tree[1];
    int nodeidx = 0;
    while (n[0] == 1) /* while we are at a nonterminal node */
    {
        if (0 == BINTEST(n[1], n[2], n[3], pixels, ldim))
            nodeidx = 2 * nodeidx + 1;
        else
            nodeidx = 2 * nodeidx + 2;
        n = (uint8_t*)&tree[1 + nodeidx];
    }
    return n[1];
}
/*
 * Portion based on the work of Nenad Markus n3ar.
 */
static void compute_index_matrix(ascii_render *pRender, uint8_t pixels[], int nrows, i
nt ncols, int ldim)
{
    int i = 0;
    int r, c;
    for (r = 0; r < nrows; r += pRender->nRows) {
        for (c = 0; c < ncols; c += pRender->nCols) {
            if (pRender->pTree)
                pRender->zMatrix[i] = get_tree_output (pRender->pTree,
&pixels[r*ldim + c], ldim);
            else
                pRender->zMatrix[i] = 0;
            ++i;
        }
    }
}

```



```

/*
* Portion based on the work of Nenad Markus n3ar.
*/
static void rc_clahem(uint8_t imap[], uint8_t img[], int i0, int j0, int i1, int j1, int ldim, uint8_t s)
{
#define NBINS 256
    double p[NBINS];
    double P[NBINS];

    int i, j, k;
    int nrows, ncols;

    nrows = i1 - i0 + 1;
    ncols = j1 - j0 + 1;

    for (i = 0; i<NBINS; ++i)
        p[i] = 0.0;

    /* compute histogram */
    for (i = i0; i <= i1; ++i)
        for (j = j0; j <= j1; ++j)
        {
            k = img[i*ldim + j];

            p[k] = p[k] + 1.0 / (nrows*ncols);
        }

    /* clip the histogram (ideally, we should do a few iterations of this) */
    for (k = 0; k<NBINS; ++k)
    {
        if (p[k] >= (double)s / NBINS)
        {
            double d;

            d = p[k] - (double)s / NBINS;

            p[k] = (double)s / NBINS;

            /* redistribute d */
            for (i = 0; i<NBINS; ++i)
                p[i] += d / NBINS;
        }
    }

    /* compute cumulative histogram */
    P[0] = p[0];
    for (i = 1; i<NBINS; ++i)
        P[i] = P[i - 1] + p[i];

    /* compute intensity map */
    for (k = 0; k<NBINS; ++k)
        imap[k] = (uint8_t)((NBINS - 1)*P[k]);
}
/*
* Portion based on the work of Nenad Markus n3ar.
*/
static void clahe_preprocess(uint8_t out[], uint8_t in[], int nrows, int ncols, int di, int dj, uint8_t s)
{
    int ldim = ncols;
#define MAXDIVS 16
    uint8_t imaps[MAXDIVS][MAXDIVS][NBINS];

    int ics[MAXDIVS], jcs[MAXDIVS];

    int i, j, k, l, i0, j0, i1, j1, I, J;

    uint8_t v00, v01, v10, v11;

```

```

i0 = 0;
j0 = 0;

I = nrows;
J = ncols;

for (i = 0; i<di; ++i)
{
    for (j = 0; j<dj; ++j)
    {
        i0 = i*I / di;
        j0 = j*J / dj;

        i1 = (i + 1)*I / di;
        j1 = (j + 1)*J / dj;

        if (i1 >= I)
            i1 = I - 1;

        if (j1 >= J)
            j1 = J - 1;

        rc_clahem(imaps[i][j], in, i0, j0, i1, j1, ldim, s);

        ics[i] = (i0 + i1) / 2;
        jcs[j] = (j0 + j1) / 2;
    }
}

/* SPECIAL CASE: image corners */
for (i = 0; i<ics[0]; ++i)
{
    for (j = 0; j<jcs[0]; ++j)
        out[i*ldim + j] = imaps[0][0][in[i*ldim + j]];

    for (j = jcs[dj - 1]; j<J; ++j)
        out[i*ldim + j] = imaps[0][dj - 1][in[i*ldim + j]];
}

for (i = ics[di - 1]; i<I; ++i)
{
    for (j = 0; j<jcs[0]; ++j)
        out[i*ldim + j] = imaps[di - 1][0][in[i*ldim + j]];

    for (j = jcs[dj - 1]; j<J; ++j)
        out[i*ldim + j] = imaps[di - 1][dj - 1][in[i*ldim + j]];
}

/* SPECIAL CASE: image boundaries */
for (k = 0; k<di - 1; ++k)
{
    for (i = ics[k]; i<ics[k + 1]; ++i)
    {
        for (j = 0; j<jcs[0]; ++j)
        {
            v00 = imaps[k + 0][0][in[i*ldim + j]];
            v10 = imaps[k + 1][0][in[i*ldim + j]];

            out[i*ldim + j] = ((ics[k + 1] - i)*v00 + (i - ics[k])
*v10) / (ics[k + 1] - ics[k]);
        }

        for (j = jcs[dj - 1]; j<J; ++j)
        {
            v01 = imaps[k + 0][dj - 1][in[i*ldim + j]];
            v11 = imaps[k + 1][dj - 1][in[i*ldim + j]];

            out[i*ldim + j] = ((ics[k + 1] - i)*v01 + (i - ics[k])

```

```

*v11) / (ics[k + 1] - ics[k]);
        }
    }
    for (k = 0; k < dj - 1; ++k)
        for (j = jcs[k]; j < jcs[k + 1]; ++j)
            {
                for (i = 0; i < ics[0]; ++i)
                    {
                        v00 = imaps[0][k + 0][in[i*ldim + j]];
                        v01 = imaps[0][k + 1][in[i*ldim + j]];

                        out[i*ldim + j] = ((jcs[k + 1] - j)*v00 + (j - jcs[k])
*v01) / (jcs[k + 1] - jcs[k]);
                    }

                for (i = ics[di - 1]; i < I; ++i)
                    {
                        v10 = imaps[di - 1][k + 0][in[i*ldim + j]];
                        v11 = imaps[di - 1][k + 1][in[i*ldim + j]];

                        out[i*ldim + j] = ((jcs[k + 1] - j)*v10 + (j - jcs[k])
*v11) / (jcs[k + 1] - jcs[k]);
                    }
            }
    for (k = 0; k < di - 1; ++k)
        for (l = 0; l < dj - 1; ++l)
            for (j = jcs[l]; j < jcs[l + 1]; ++j)
                for (i = ics[k]; i < ics[k + 1]; ++i)
                    {
                        uint8_t p;

                        p = in[i*ldim + j];

                        v00 = imaps[k + 0][l + 0][p];
                        v01 = imaps[k + 0][l + 1][p];
                        v10 = imaps[k + 1][l + 0][p];
                        v11 = imaps[k + 1][l + 1][p];

                        out[i*ldim + j] =
                            (
                                (ics[k + 1] - i)*(jcs[l + 1] - j)*v00
+ (ics[k + 1] - i)*(j - jcs[l])*v01 + (i - ics[k])*(jcs[l + 1] - j)*v10 + (i - ics[k])
*(j - jcs[l])*v11
                                ) / ((ics[k + 1] - ics[k])*(jcs[
s[l + 1] - jcs[l]));
                    }
            }
}
/*
* Portion based on the work of Nenad Markus n3ar.
*/
static void transform_to_ascii(ascii_render *pRender, uint8_t pixels[], int* nrows, in
t* ncols, unsigned char *zBuf)
{
    uint8_t *zPtr = zBuf;
    int ldim = *ncols;
    uint8_t* glyph;
    int i, j, idx;
    int r, c, n;

    *nrows = (*nrows / pRender->nRows) * pRender->nRows;
    *ncols = (*ncols / pRender->nCols) * pRender->nCols;

    compute_index_matrix(pRender, pixels, *nrows, *ncols, ldim);
    n = 0;
    for (r = 0; r < *nrows; r += pRender->nRows) {
        for (c = 0; c < *ncols; c += pRender->nCols) {
            idx = pRender->zMatrix[n];

```

```

        ++n;
        glyph = (uint8_t*)&pRender->zGlyphs[idx][0];
        if (zPtr) *zPtr++ = glyph_char_table[idx];
        for (i = 0; i < pRender->nRows; ++i)
            for (j = 0; j < pRender->nCols; ++j)
                pixels[(r + i)*ldim + (c + j)] = glyph[i*pRender->nCols + j];
    }
    if (zPtr) *zPtr++ = '\n';
}
}
/*
 * CAPIREF: Refer to the official documentation for the main purpose of this interface.
 */
void AsciiArtInit(ascii_render *pRender)
{
    /*      memset(pRender, 0, sizeof(ascii_render));      */
    parse_art_model(pRender->zGlyphs, &pRender->nGlyphs, &pRender->nRows, &pRender->nCols, &pRender->pTree, zBin);
}
/*
 * CAPIREF: Refer to the official documentation for the main purpose of this interface.
 */
unsigned int AsciiArtTextBufSize(ascii_render *pRender, int img_width, int img_height)
{
    return img_height / pRender->nRows * (img_width / pRender->nCols + 1) * sizeof(uint8_t);
}
/*
 * CAPIREF: Refer to the official documentation for the main purpose of this interface.
 */
void AsciiArtRender(ascii_render *pRender, unsigned char *zPixel /*IN/OUT*/, int *pnWidth /*IN/OUT*/, int *pnHeight /*IN/OUT*/, unsigned char *zBuf/* Optional/OUT */, int Optimize)
{
    int ncol = *pnWidth;
    if (Optimize) {
        clahe_preprocess(zPixel, zPixel, *pnHeight, *pnWidth, 8, 8, 3);
    }
    transform_to_ascii(&(*pRender), zPixel, pnHeight, pnWidth, zBuf);
    if (*pnWidth < ncol) {
        /* Restore original width */
        *pnWidth = ncol;
    }
}
#define STB_IMAGE_IMPLEMENTATION

/* stb_image - v2.16 - public domain image loader - http://nothings.org/stb_image.h
no warranty implied; use at your own risk

Do this:
#define STB_IMAGE_IMPLEMENTATION
before you include this file in *one* C or C++ file to create the implementation.

// i.e. it should look like this:
#include ...
#include ...
#include ...
#define STB_IMAGE_IMPLEMENTATION
#include "stb_image.h"

You can #define STBI_ASSERT(x) before the #include to avoid using assert.h.
And #define STBI_MALLOC, STBI_REALLOC, and STBI_FREE to avoid using malloc, realloc, free

```

QUICK NOTES:

Primarily of interest to game developers and other people who can avoid problematic images and only need the trivial interface

JPEG baseline & progressive (12 bpc/arithmetic not supported, same as stock IJG lib)
 PNG 1/2/4/8/16-bit-per-channel

TGA (not sure what subset, if a subset)
 BMP non-1bpp, non-RLE
 PSD (composited view only, no extra channels, 8/16 bit-per-channel)

GIF (*comp always reports as 4-channel)
 HDR (radiance rgbE format)
 PIC (Softimage PIC)
 PNM (PPM and PGM binary only)

Animated GIF still needs a proper API, but here's one way to do it:
<http://gist.github.com/urraka/685d9a6340b26b830d49>

- decode from memory or through FILE (define STBI_NO_STDIO to remove code)
- decode from arbitrary I/O callbacks
- SIMD acceleration on x86/x64 (SSE2) and ARM (NEON)

Full documentation under "DOCUMENTATION" below.

LICENSE

See end of file for license information.

RECENT REVISION HISTORY:

2.16 (2017-07-23) all functions have 16-bit variants; optimizations; bugfixes
 2.15 (2017-03-18) fix png-1,2,4; all Imagenet JPGs; no runtime SSE detection on GCC
 2.14 (2017-03-03) remove deprecated STBI_JPEG_OLD; fixes for Imagenet JPGs
 2.13 (2016-12-04) experimental 16-bit API, only for PNG so far; fixes
 2.12 (2016-04-02) fix typo in 2.11 PSD fix that caused crashes
 2.11 (2016-04-02) 16-bit PNGS; enable SSE2 in non-gcc x64
 RGB-format JPEG; remove white matting in PSD;
 allocate large structures on the stack;
 correct channel count for PNG & BMP
 2.10 (2016-01-22) avoid warning introduced in 2.09
 2.09 (2016-01-16) 16-bit TGA; comments in PNM files; STBI_REALLOC_SIZED

See end of file for full revision history.

```

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Image formats                                Extensions, features
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Jonathan Dummer (tga)                       James "moose2000" Brown (iPhone PNG)
Jean-Marc Lienher (gif)                     Ben "Disch" Wenger (io callbacks)
Tom Seddon (pic)                             Omar Cornut (1/2/4-bit PNG)
Thatcher Ulrich (psd)                       Nicolas Guillemot (vertical flip)
Ken Miller (pgm, ppm)                       Richard Mitton (16-bit PSD)
github:urraka (animated gif)                Junggon Kim (PNM comments)
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Bug & warning fixes
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Ryamond Barbiero     Paul Du Bois       Engin Manap       github:Zelex
Michaelangel007@github Philipp Wieseemann Dale Weiler       github:grim210
Oriol Ferrer Mesia   Josh Tobin         Matthew Gregan    github:sammyhw
Blazej Dariusz Roszkowski Gregory Mullen     github:phprus
Christian Floisand    Kevin Schmidt      github:poppolopoppo
*/

#ifdef STBI_INCLUDE_STB_IMAGE_H
#define STBI_INCLUDE_STB_IMAGE_H

// DOCUMENTATION
//
// Limitations:
//   - no 16-bit-per-channel PNG
//   - no 12-bit-per-channel JPEG
//   - no JPEGs with arithmetic coding
//   - no 1-bit BMP
//   - GIF always returns *comp=4
//
// Basic usage (see HDR discussion below for HDR usage):
//   int x,y,n;
//   unsigned char *data = stbi_load(filename, &x, &y, &n, 0);
//   // ... process data if not NULL ...
//   // ... x = width, y = height, n = # 8-bit components per pixel ...
//   // ... replace '0' with '1'..'4' to force that many components per pixel
//   // ... but 'n' will always be the number that it would have been if you said 0
//   stbi_image_free(data)
//
// Standard parameters:
//   int *x           -- outputs image width in pixels
//   int *y           -- outputs image height in pixels
//   int *channels_in_file -- outputs # of image components in image file
//   int desired_channels -- if non-zero, # of image components requested in result
//
// The return value from an image loader is an 'unsigned char *' which points
// to the pixel data, or NULL on an allocation failure or if the image is
// corrupt or invalid. The pixel data consists of *y scanlines of *x pixels,
// with each pixel consisting of N interleaved 8-bit components; the first
// pixel pointed to is top-left-most in the image. There is no padding between
// image scanlines or between pixels, regardless of format. The number of
// components N is 'desired_channels' if desired_channels is non-zero, or
// *channels_in_file otherwise. If desired_channels is non-zero,
// *channels_in_file has the number of components that _would_ have been
// output otherwise. E.g. if you set desired_channels to 4, you will always
// get RGBA output, but you can check *channels_in_file to see if it's trivially
// opaque because e.g. there were only 3 channels in the source image.
//
// An output image with N components has the following components interleaved
// in this order in each pixel:
//
//   N=#comp      components
//   1             grey
//   2             grey, alpha
//   3             red, green, blue
//   4             red, green, blue, alpha
//
// If image loading fails for any reason, the return value will be NULL,
// and *x, *y, *channels_in_file will be unchanged. The function
// stbi_failure_reason() can be queried for an extremely brief, end-user
// unfriendly explanation of why the load failed. Define STBI_NO_FAILURE_STRINGS
// to avoid compiling these strings at all, and STBI_FAILURE_USERMSG to get slightly
// more user-friendly ones.
//
// Paletted PNG, BMP, GIF, and PIC images are automatically depalettized.

```

```
// =====  
//  
// Philosophy  
//  
// stb libraries are designed with the following priorities:  
//  
// 1. easy to use  
// 2. easy to maintain  
// 3. good performance  
//  
// Sometimes I let "good performance" creep up in priority over "easy to maintain",  
// and for best performance I may provide less-easy-to-use APIs that give higher  
// performance, in addition to the easy to use ones. Nevertheless, it's important  
// to keep in mind that from the standpoint of you, a client of this library,  
// all you care about is #1 and #3, and stb libraries DO NOT emphasize #3 above all.  
//  
// Some secondary priorities arise directly from the first two, some of which  
// make more explicit reasons why performance can't be emphasized.  
//  
// - Portable ("ease of use")  
// - Small source code footprint ("easy to maintain")  
// - No dependencies ("ease of use")  
//  
// =====  
//  
// I/O callbacks  
//  
// I/O callbacks allow you to read from arbitrary sources, like packaged  
// files or some other source. Data read from callbacks are processed  
// through a small internal buffer (currently 128 bytes) to try to reduce  
// overhead.  
//  
// The three functions you must define are "read" (reads some bytes of data),  
// "skip" (skips some bytes of data), "eof" (reports if the stream is at the end).  
//  
// =====  
//  
// SIMD support  
//  
// The JPEG decoder will try to automatically use SIMD kernels on x86 when  
// supported by the compiler. For ARM Neon support, you must explicitly  
// request it.  
//  
// (The old do-it-yourself SIMD API is no longer supported in the current  
// code.)  
//  
// On x86, SSE2 will automatically be used when available based on a run-time  
// test; if not, the generic C versions are used as a fall-back. On ARM targets,  
// the typical path is to have separate builds for NEON and non-NEON devices  
// (at least this is true for iOS and Android). Therefore, the NEON support is  
// toggled by a build flag: define STBI_NEON to get NEON loops.  
//  
// If for some reason you do not want to use any of SIMD code, or if  
// you have issues compiling it, you can disable it entirely by  
// defining STBI_NO_SIMD.  
//  
// =====  
//  
// HDR image support (disable by defining STBI_NO_HDR)  
//  
// stb_image now supports loading HDR images in general, and currently  
// the Radiance .HDR file format, although the support is provided  
// generically. You can still load any file through the existing interface;  
// if you attempt to load an HDR file, it will be automatically remapped to  
// LDR, assuming gamma 2.2 and an arbitrary scale factor defaulting to 1;  
// both of these constants can be reconfigured through this interface:  
//  
// stbi_hdr_to_ldr_gamma(2.2f);  
// stbi_hdr_to_ldr_scale(1.0f);
```

```
//
// (note, do not use _inverse_ constants; stbi_image will invert them
// appropriately).
//
// Additionally, there is a new, parallel interface for loading files as
// (linear) floats to preserve the full dynamic range:
//
//     float *data = stbi_loadf(filename, &x, &y, &n, 0);
//
// If you load LDR images through this interface, those images will
// be promoted to floating point values, run through the inverse of
// constants corresponding to the above:
//
//     stbi_ldr_to_hdr_scale(1.0f);
//     stbi_ldr_to_hdr_gamma(2.2f);
//
// Finally, given a filename (or an open file or memory block--see header
// file for details) containing image data, you can query for the "most
// appropriate" interface to use (that is, whether the image is HDR or
// not), using:
//
//     stbi_is_hdr(char *filename);
//
// =====
//
// iPhone PNG support:
//
// By default we convert iphone-formatted PNGs back to RGB, even though
// they are internally encoded differently. You can disable this conversion
// by calling stbi_convert_iphone_png_to_rgb(0), in which case
// you will always just get the native iphone "format" through (which
// is BGR stored in RGB).
//
// Call stbi_set_unpremultiply_on_load(1) as well to force a divide per
// pixel to remove any premultiplied alpha *only* if the image file explicitly
// says there's premultiplied data (currently only happens in iPhone images,
// and only if iPhone convert-to-rgb processing is on).
//
// =====
//
// ADDITIONAL CONFIGURATION
//
// - You can suppress implementation of any of the decoders to reduce
// your code footprint by #defining one or more of the following
// symbols before creating the implementation.
//
//     STBI_NO_JPEG
//     STBI_NO_PNG
//     STBI_NO_BMP
//     STBI_NO_PSD
//     STBI_NO_TGA
//     STBI_NO_GIF
//     STBI_NO_HDR
//     STBI_NO_PIC
//     STBI_NO_PNM    (.ppm and .pgm)
//
// - You can request *only* certain decoders and suppress all other ones
// (this will be more forward-compatible, as addition of new decoders
// doesn't require you to disable them explicitly):
//
//     STBI_ONLY_JPEG
//     STBI_ONLY_PNG
//     STBI_ONLY_BMP
//     STBI_ONLY_PSD
//     STBI_ONLY_TGA
//     STBI_ONLY_GIF
//     STBI_ONLY_HDR
//     STBI_ONLY_PIC
//     STBI_ONLY_PNM    (.ppm and .pgm)
```



```

//
// - If you use STBI_NO_PNG (or _ONLY_ without PNG), and you still
// want the zlib decoder to be available, #define STBI_SUPPORT_ZLIB
//

#ifndef STBI_NO_STDIO
#include <stdio.h>
#endif // STBI_NO_STDIO

#define STBI_VERSION 1

enum
{
    STBI_default = 0, // only used for desired_channels

    STBI_grey = 1,
    STBI_grey_alpha = 2,
    STBI_rgb = 3,
    STBI_rgb_alpha = 4
};

typedef unsigned char stbi_uc;
typedef unsigned short stbi_us;

#ifdef __cplusplus
extern "C" {
#endif

#ifdef STB_IMAGE_STATIC
#define STBIDEF static
#else
#define STBIDEF extern
#endif

//
// PRIMARY API - works on images of any type
//

//
// load image by filename, open file, or memory buffer
//

typedef struct
{
    int(*read) (void *user, char *data, int size); // fill 'data' with
'size' bytes. return number of bytes actually read
    void(*skip) (void *user, int n); // skip the next 'n'
bytes, or 'unget' the last -n bytes if negative
    int(*eof) (void *user); // returns nonzero if
we are at end of file/data
} stbi_io_callbacks;

//
// 8-bits-per-channel interface
//

STBIDEF stbi_uc *stbi_load_from_memory(stbi_uc const *buffer, int len,
int *x, int *y, int *channels_in_file, int desired_channels);
STBIDEF stbi_uc *stbi_load_from_callbacks(stbi_io_callbacks const *clbk, void
*user, int *x, int *y, int *channels_in_file, int desired_channels);

#ifndef STBI_NO_STDIO
STBIDEF stbi_uc *stbi_load(char const *filename, int *x, int *y, int *channels
_in_file, int desired_channels);
STBIDEF stbi_uc *stbi_load_from_file(FILE *f, int *x, int *y, int *channels_in
_file, int desired_channels);

```

```

        // for stbi_load_from_file, file pointer is left pointing immediately after im
age
#endif

        ////////////////////////////////////////////////////
        //
        // 16-bits-per-channel interface
        //

        STBIDEF stbi_us *stbi_load_16_from_memory(stbi_uc const *buffer, int len, int
*x, int *y, int *channels_in_file, int desired_channels);
        STBIDEF stbi_us *stbi_load_16_from_callbacks(stbi_io_callbacks const *clbk, vo
id *user, int *x, int *y, int *channels_in_file, int desired_channels);

#ifndef STBI_NO_STDIO
        STBIDEF stbi_us *stbi_load_16(char const *filename, int *x, int *y, int *chann
els_in_file, int desired_channels);
        STBIDEF stbi_us *stbi_load_from_file_16(FILE *f, int *x, int *y, int *channels
_in_file, int desired_channels);
#endif

        ////////////////////////////////////////////////////
        //
        // float-per-channel interface
        //

#ifndef STBI_NO_LINEAR
        STBIDEF float *stbi_loadf_from_memory(stbi_uc const *buffer, int len, int *x,
int *y, int *channels_in_file, int desired_channels);
        STBIDEF float *stbi_loadf_from_callbacks(stbi_io_callbacks const *clbk, void *
user, int *x, int *y, int *channels_in_file, int desired_channels);

#ifndef STBI_NO_STDIO
        STBIDEF float *stbi_loadf(char const *filename, int *x, int *y, int *channels_
in_file, int desired_channels);
        STBIDEF float *stbi_loadf_from_file(FILE *f, int *x, int *y, int *channels_in_
file, int desired_channels);
#endif
#endif

#ifndef STBI_NO_HDR
        STBIDEF void    stbi_hdr_to_ldr_gamma(float gamma);
        STBIDEF void    stbi_hdr_to_ldr_scale(float scale);
#endif // STBI_NO_HDR

#ifndef STBI_NO_LINEAR
        STBIDEF void    stbi_ldr_to_hdr_gamma(float gamma);
        STBIDEF void    stbi_ldr_to_hdr_scale(float scale);
#endif // STBI_NO_LINEAR

        // stbi_is_hdr is always defined, but always returns false if STBI_NO_HDR
        STBIDEF int    stbi_is_hdr_from_callbacks(stbi_io_callbacks const *clbk, void
*user);
        STBIDEF int    stbi_is_hdr_from_memory(stbi_uc const *buffer, int len);
#ifndef STBI_NO_STDIO
        STBIDEF int    stbi_is_hdr(char const *filename);
        STBIDEF int    stbi_is_hdr_from_file(FILE *f);
#endif // STBI_NO_STDIO

        // get a VERY brief reason for failure
        // NOT THREADSAFE
        STBIDEF const char *stbi_failure_reason(void);

        // free the loaded image -- this is just free()
        STBIDEF void    stbi_image_free(void *retval_from_stbi_load);

        // get image dimensions & components without fully decoding
        STBIDEF int    stbi_info_from_memory(stbi_uc const *buffer, int len, int *x,
int *y, int *comp);

```

```

        STBIDEF int      stbi_info_from_callbacks(stbi_io_callbacks const *clbk, void
*user, int *x, int *y, int *comp);

#ifndef STBI_NO_STDIO
        STBIDEF int      stbi_info(char const *filename, int *x, int *y, int *comp);
        STBIDEF int      stbi_info_from_file(FILE *f, int *x, int *y, int *comp);

#endif

        // for image formats that explicitly notate that they have premultiplied alpha
        // we just return the colors as stored in the file. set this flag to force
        // unpremultiplication. results are undefined if the unpremultiply overflow.
        STBIDEF void stbi_set_unpremultiply_on_load(int flag_true_if_should_unpremulti
ply);

        // indicate whether we should process iphone images back to canonical format,
        // or just pass them through "as-is"
        STBIDEF void stbi_convert_iphone_png_to_rgb(int flag_true_if_should_convert);

        // flip the image vertically, so the first pixel in the output array is the bo
ttom left
        STBIDEF void stbi_set_flip_vertically_on_load(int flag_true_if_should_flip);

        // ZLIB client - used by PNG, available for other purposes

        STBIDEF char *stbi_zlib_decode_malloc_guesssize(const char *buffer, int len, i
nt initial_size, int *outlen);
        STBIDEF char *stbi_zlib_decode_malloc_guesssize_headerflag(const char *buffer,
        int len, int initial_size, int *outlen, int parse_header);
        STBIDEF char *stbi_zlib_decode_malloc(const char *buffer, int len, int *outlen
);
        STBIDEF int  stbi_zlib_decode_buffer(char *obuffer, int olen, const char *ibu
ffer, int ilen);

        STBIDEF char *stbi_zlib_decode_noheader_malloc(const char *buffer, int len, in
t *outlen);
        STBIDEF int  stbi_zlib_decode_noheader_buffer(char *obuffer, int olen, const
char *ibuffer, int ilen);

#ifndef __cplusplus
#endif

//
//
///// end header file //////////////////////////////////////
#endif // STBI_INCLUDE_STB_IMAGE_H

#ifdef STB_IMAGE_IMPLEMENTATION

#if defined(STBI_ONLY_JPEG) || defined(STBI_ONLY_PNG) || defined(STBI_ONLY_BMP) \
  || defined(STBI_ONLY_TGA) || defined(STBI_ONLY_GIF) || defined(STBI_ONLY_PSD) \
  || defined(STBI_ONLY_HDR) || defined(STBI_ONLY_PIC) || defined(STBI_ONLY_PNM) \
  || defined(STBI_ONLY_ZLIB)
#else
#define STBI_NO_JPEG
#define STBI_NO_PNG
#define STBI_NO_BMP
#define STBI_NO_PSD
#define STBI_NO_TGA
#define STBI_NO_GIF
#define STBI_NO_PIC
#define STBI_NO_PNM
#endif

#endif

```

```
#endif
#ifndef STBI_ONLY_TGA
#define STBI_NO_TGA
#endif
#ifndef STBI_ONLY_GIF
#define STBI_NO_GIF
#endif
#ifndef STBI_ONLY_HDR
#define STBI_NO_HDR
#endif
#ifndef STBI_ONLY_PIC
#define STBI_NO_PIC
#endif
#ifndef STBI_ONLY_PNM
#define STBI_NO_PNM
#endif
#endif

#if defined(STBI_NO_PNG) && !defined(STBI_SUPPORT_ZLIB) && !defined(STBI_NO_ZLIB)
#define STBI_NO_ZLIB
#endif

#include <stdarg.h>
#include <stddef.h> // ptrdiff_t on osx
#include <stdlib.h>
#include <string.h>
#include <limits.h>

#if !defined(STBI_NO_LINEAR) || !defined(STBI_NO_HDR)
#include <math.h> // ldexp
#endif

#ifndef STBI_NO_STDIO
#include <stdio.h>
#endif

#ifndef STBI_ASSERT
#include <assert.h>
#define STBI_ASSERT(x) assert(x)
#endif

#ifndef _MSC_VER
#ifdef __cplusplus
#define stbi_inline inline
#else
#define stbi_inline
#endif
#else
#define stbi_inline __forceinline
#endif

#ifdef _MSC_VER
typedef unsigned short stbi__uint16;
typedef signed short stbi__int16;
typedef unsigned int stbi__uint32;
typedef signed int stbi__int32;
#else
#include <stdint.h>
typedef uint16_t stbi__uint16;
typedef int16_t stbi__int16;
typedef uint32_t stbi__uint32;
typedef int32_t stbi__int32;
#endif

// should produce compiler error if size is wrong
typedef unsigned char validate_uint32[sizeof(stbi__uint32) == 4 ? 1 : -1];
```

```

#ifdef _MSC_VER
#define STBI_NOTUSED(v) (void)(v)
#else
#define STBI_NOTUSED(v) (void)sizeof(v)
#endif

#ifdef _MSC_VER
#define STBI_HAS_LROTL
#endif

#ifdef STBI_HAS_LROTL
#define stbi_lrot(x,y) _lrotl(x,y)
#else
#define stbi_lrot(x,y) (((x) << (y)) | ((x) >> (32 - (y))))
#endif

#if defined(STBI_MALLOC) && defined(STBI_FREE) && (defined(STBI_REALLOC) || defined(STBI_REALLOC_SIZED))
// ok
#elif !defined(STBI_MALLOC) && !defined(STBI_FREE) && !defined(STBI_REALLOC) && !defined(STBI_REALLOC_SIZED)
// ok
#else
#error "Must define all or none of STBI_MALLOC, STBI_FREE, and STBI_REALLOC (or STBI_REALLOC_SIZED)."
#endif

#ifdef STBI_MALLOC
#define STBI_MALLOC(sz) malloc(sz)
#define STBI_REALLOC(p,newsz) realloc(p,newsz)
#define STBI_FREE(p) free(p)
#endif

#ifdef STBI_REALLOC_SIZED
#define STBI_REALLOC_SIZED(p,oldsz,newsz) STBI_REALLOC(p,newsz)
#endif

// x86/x64 detection
#ifdef __x86_64__ || defined(_M_X64)
#define STBI__X64_TARGET
#elif defined(__i386) || defined(_M_I386)
#define STBI__X86_TARGET
#endif

#ifdef __GNUC__ && defined(STBI__X86_TARGET) && !defined(__SSE2__) && !defined(STBI_NO_SIMD)
// gcc doesn't support sse2 intrinsics unless you compile with -msse2,
// which in turn means it gets to use SSE2 everywhere. This is unfortunate,
// but previous attempts to provide the SSE2 functions with runtime
// detection caused numerous issues. The way architecture extensions are
// exposed in GCC/Clang is, sadly, not really suited for one-file libs.
// New behavior: if compiled with -msse2, we use SSE2 without any
// detection; if not, we don't use it at all.
#define STBI_NO_SIMD
#endif

#ifdef __MINGW32__ && defined(STBI__X86_TARGET) && !defined(STBI_MINGW_ENABLE_SSE2) && !defined(STBI_NO_SIMD)
// Note that __MINGW32__ doesn't actually mean 32-bit, so we have to avoid STBI__X64_TARGET
//
// 32-bit MinGW wants ESP to be 16-byte aligned, but this is not in the
// Windows ABI and VC++ as well as Windows DLLs don't maintain that invariant.
// As a result, enabling SSE2 on 32-bit MinGW is dangerous when not
// simultaneously enabling "-mstackrealign".
//
// See https://github.com/nothings/stb/issues/81 for more information.
//

```

```

// So default to no SSE2 on 32-bit MinGW. If you've read this far and added
// -mstackrealign to your build settings, feel free to #define STBI_MINGW_ENABLE_SSE2.
#define STBI_NO_SIMD
#endif

#if !defined(STBI_NO_SIMD) && (defined(STBI__X86_TARGET) || defined(STBI__X64_TARGET))
#define STBI_SSE2
#include <emmintrin.h>

#ifdef _MSC_VER

#if _MSC_VER >= 1400 // not VC6
#include <intrin.h> // __cpuid
static int stbi__cpuid3(void)
{
    int info[4];
    __cpuid(info, 1);
    return info[3];
}
#else
static int stbi__cpuid3(void)
{
    int res;
    __asm {
        mov eax, 1
        cpuid
        mov res, edx
    }
    return res;
}
#endif
#endif

#define STBI_SIMD_ALIGN(type, name) __declspec(align(16)) type name

static int stbi__sse2_available(void)
{
    int info3 = stbi__cpuid3();
    return ((info3 >> 26) & 1) != 0;
}
#else // assume GCC-style if not VC++
#define STBI_SIMD_ALIGN(type, name) type name __attribute__((aligned(16)))

static int stbi__sse2_available(void)
{
    // If we're even attempting to compile this on GCC/Clang, that means
    // -msse2 is on, which means the compiler is allowed to use SSE2
    // instructions at will, and so are we.
    return 1;
}
#endif
#endif

// ARM NEON
#if defined(STBI_NO_SIMD) && defined(STBI_NEON)
#undef STBI_NEON
#endif

#ifdef STBI_NEON
#include <arm_neon.h>
// assume GCC or Clang on ARM targets
#define STBI_SIMD_ALIGN(type, name) type name __attribute__((aligned(16)))
#endif

#ifdef STBI_SIMD_ALIGN
#define STBI_SIMD_ALIGN(type, name) type name
#endif

////////////////////////////////////
//

```

```

// stbi__context struct and start_xxx functions

// stbi__context structure is our basic context used by all images, so it
// contains all the IO context, plus some basic image information
typedef struct
{
    stbi__uint32 img_x, img_y;
    int img_n, img_out_n;

    stbi_io_callbacks io;
    void *io_user_data;

    int read_from_callbacks;
    int buflen;
    stbi_uc buffer_start[128];

    stbi_uc *img_buffer, *img_buffer_end;
    stbi_uc *img_buffer_original, *img_buffer_original_end;
} stbi__context;

static void stbi__refill_buffer(stbi__context *s);

// initialize a memory-decode context
static void stbi__start_mem(stbi__context *s, stbi_uc const *buffer, int len)
{
    s->io.read = NULL;
    s->read_from_callbacks = 0;
    s->img_buffer = s->img_buffer_original = (stbi_uc *)buffer;
    s->img_buffer_end = s->img_buffer_original_end = (stbi_uc *)buffer + len;
}

// initialize a callback-based context
static void stbi__start_callbacks(stbi__context *s, stbi_io_callbacks *c, void *user)
{
    s->io = *c;
    s->io_user_data = user;
    s->buflen = sizeof(s->buffer_start);
    s->read_from_callbacks = 1;
    s->img_buffer_original = s->buffer_start;
    stbi__refill_buffer(s);
    s->img_buffer_original_end = s->img_buffer_end;
}

#ifdef STBI_NO_STDIO
static int stbi__stdio_read(void *user, char *data, int size)
{
    return (int)fread(data, 1, size, (FILE*)user);
}

static void stbi__stdio_skip(void *user, int n)
{
    fseek((FILE*)user, n, SEEK_CUR);
}

static int stbi__stdio_eof(void *user)
{
    return feof((FILE*)user);
}

static stbi_io_callbacks stbi__stdio_callbacks =
{
    stbi__stdio_read,
    stbi__stdio_skip,
    stbi__stdio_eof,
};

static void stbi__start_file(stbi__context *s, FILE *f)

```

```

{
    stbi__start_callbacks(s, &stbi__stdio_callbacks, (void *)f);
}

//static void stop_file(stbi__context *s) { }

#endif // !STBI_NO_STDIO

static void stbi__rewind(stbi__context *s)
{
    // conceptually rewind SHOULD rewind to the beginning of the stream,
    // but we just rewind to the beginning of the initial buffer, because
    // we only use it after doing 'test', which only ever looks at at most 92 byte
s
    s->img_buffer = s->img_buffer_original;
    s->img_buffer_end = s->img_buffer_original_end;
}

enum
{
    STBI_ORDER_RGB,
    STBI_ORDER_BGR
};

typedef struct
{
    int bits_per_channel;
    int num_channels;
    int channel_order;
} stbi__result_info;

#ifndef STBI_NO_JPEG
static int stbi__jpeg_test(stbi__context *s);
static void *stbi__jpeg_load(stbi__context *s, int *x, int *y, int *comp, int req_c
omp, stbi__result_info *ri);
static int stbi__jpeg_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifndef STBI_NO_PNG
static int stbi__png_test(stbi__context *s);
static void *stbi__png_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int stbi__png_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifndef STBI_NO_BMP
static int stbi__bmp_test(stbi__context *s);
static void *stbi__bmp_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int stbi__bmp_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifndef STBI_NO_TGA
static int stbi__tga_test(stbi__context *s);
static void *stbi__tga_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int stbi__tga_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifndef STBI_NO_PSD
static int stbi__psd_test(stbi__context *s);
static void *stbi__psd_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri, int bpc);
static int stbi__psd_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifndef STBI_NO_HDR
static int stbi__hdr_test(stbi__context *s);
static float *stbi__hdr_load(stbi__context *s, int *x, int *y, int *comp, int req_co

```



```

mp, stbi__result_info *ri);
static int      stbi__hdr_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifdef STBI_NO_PIC
static int      stbi__pic_test(stbi__context *s);
static void     *stbi__pic_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int      stbi__pic_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifdef STBI_NO_GIF
static int      stbi__gif_test(stbi__context *s);
static void     *stbi__gif_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int      stbi__gif_info(stbi__context *s, int *x, int *y, int *comp);
#endif

#ifdef STBI_NO_PNM
static int      stbi__pnm_test(stbi__context *s);
static void     *stbi__pnm_load(stbi__context *s, int *x, int *y, int *comp, int req_co
mp, stbi__result_info *ri);
static int      stbi__pnm_info(stbi__context *s, int *x, int *y, int *comp);
#endif

// this is not threadsafe
static const char *stbi__g_failure_reason;

STBIDEF const char *stbi_failure_reason(void)
{
    return stbi__g_failure_reason;
}

static int stbi__err(const char *str)
{
    stbi__g_failure_reason = str;
    return 0;
}

static void *stbi__malloc(size_t size)
{
    return STBI_MALLOC(size);
}

// stb_image uses ints pervasively, including for offset calculations.
// therefore the largest decoded image size we can support with the
// current code, even on 64-bit targets, is INT_MAX. this is not a
// significant limitation for the intended use case.
//
// we do, however, need to make sure our size calculations don't
// overflow. hence a few helper functions for size calculations that
// multiply integers together, making sure that they're non-negative
// and no overflow occurs.

// return 1 if the sum is valid, 0 on overflow.
// negative terms are considered invalid.
static int stbi__addsizes_valid(int a, int b)
{
    if (b < 0) return 0;
    // now 0 <= b <= INT_MAX, hence also
    // 0 <= INT_MAX - b <= INTMAX.
    // And "a + b <= INT_MAX" (which might overflow) is the
    // same as a <= INT_MAX - b (no overflow)
    return a <= INT_MAX - b;
}

// returns 1 if the product is valid, 0 on overflow.
// negative factors are considered invalid.
static int stbi__mul2sizes_valid(int a, int b)

```

```

{
    if (a < 0 || b < 0) return 0;
    if (b == 0) return 1; // mul-by-0 is always safe
                                // portable way to check for no over
flows in a*b
    return a <= INT_MAX / b;
}

// returns 1 if "a*b + add" has no negative terms/factors and doesn't overflow
static int stbi__mad2sizes_valid(int a, int b, int add)
{
    return stbi__mul2sizes_valid(a, b) && stbi__addsizes_valid(a*b, add);
}

// returns 1 if "a*b*c + add" has no negative terms/factors and doesn't overflow
static int stbi__mad3sizes_valid(int a, int b, int c, int add)
{
    return stbi__mul2sizes_valid(a, b) && stbi__mul2sizes_valid(a*b, c) &&
        stbi__addsizes_valid(a*b*c, add);
}

// returns 1 if "a*b*c*d + add" has no negative terms/factors and doesn't overflow
static int stbi__mad4sizes_valid(int a, int b, int c, int d, int add)
{
    return stbi__mul2sizes_valid(a, b) && stbi__mul2sizes_valid(a*b, c) &&
        stbi__mul2sizes_valid(a*b*c, d) && stbi__addsizes_valid(a*b*c*d, add);
}

// mallocs with size overflow checking
static void *stbi__malloc_mad2(int a, int b, int add)
{
    if (!stbi__mad2sizes_valid(a, b, add)) return NULL;
    return stbi__malloc(a*b + add);
}

static void *stbi__malloc_mad3(int a, int b, int c, int add)
{
    if (!stbi__mad3sizes_valid(a, b, c, add)) return NULL;
    return stbi__malloc(a*b*c + add);
}

static void *stbi__malloc_mad4(int a, int b, int c, int d, int add)
{
    if (!stbi__mad4sizes_valid(a, b, c, d, add)) return NULL;
    return stbi__malloc(a*b*c*d + add);
}

// stbi__err - error
// stbi__errpf - error returning pointer to float
// stbi__errpuc - error returning pointer to unsigned char

#ifdef STBI_NO_FAILURE_STRINGS
#define stbi__err(x,y) 0
#elif defined(STBI_FAILURE_USERMSG)
#define stbi__err(x,y) stbi__err(y)
#else
#define stbi__err(x,y) stbi__err(x)
#endif

#define stbi__errpf(x,y) ((float *) (size_t) (stbi__err(x,y)?NULL:NULL))
#define stbi__errpuc(x,y) ((unsigned char *) (size_t) (stbi__err(x,y)?NULL:NULL))

STBIDEF void stbi_image_free(void *retval_from_stbi_load)
{
    STBI_FREE(retval_from_stbi_load);
}

#ifdef STBI_NO_LINEAR
static float *stbi__ldr_to_hdr(stbi_uc *data, int x, int y, int comp);

```

```

#endif

#ifndef STBI_NO_HDR
static stbi_uc *stbi__hdr_to_ldr(float *data, int x, int y, int comp);
#endif

static int stbi__vertically_flip_on_load = 0;

STBIDEF void stbi_set_flip_vertically_on_load(int flag_true_if_should_flip)
{
    stbi__vertically_flip_on_load = flag_true_if_should_flip;
}

static void *stbi__load_main(stbi__context *s, int *x, int *y, int *comp, int req_comp,
, stbi__result_info *ri, int bpc)
{
    memset(ri, 0, sizeof(*ri)); // make sure it's initialized if we add new fields
    ri->bits_per_channel = 8; // default is 8 so most paths don't have to be chang
ed
    ri->channel_order = STBI_ORDER_RGB; // all current input & output are this, bu
t this is here so we can add BGR order
    ri->num_channels = 0;

#ifndef STBI_NO_JPEG
    if (stbi__jpeg_test(s)) return stbi__jpeg_load(s, x, y, comp, req_comp, ri);
#endif
#ifndef STBI_NO_PNG
    if (stbi__png_test(s)) return stbi__png_load(s, x, y, comp, req_comp, ri);
#endif
#ifndef STBI_NO_BMP
    if (stbi__bmp_test(s)) return stbi__bmp_load(s, x, y, comp, req_comp, ri);
#endif
#ifndef STBI_NO_GIF
    if (stbi__gif_test(s)) return stbi__gif_load(s, x, y, comp, req_comp, ri);
#endif
#ifndef STBI_NO_PSD
    if (stbi__psd_test(s)) return stbi__psd_load(s, x, y, comp, req_comp, ri, bpc
);
#endif
#ifndef STBI_NO_PIC
    if (stbi__pic_test(s)) return stbi__pic_load(s, x, y, comp, req_comp, ri);
#endif
#ifndef STBI_NO_PNM
    if (stbi__pnm_test(s)) return stbi__pnm_load(s, x, y, comp, req_comp, ri);
#endif

#ifndef STBI_NO_HDR
    if (stbi__hdr_test(s)) {
        float *hdr = stbi__hdr_load(s, x, y, comp, req_comp, ri);
        return stbi__hdr_to_ldr(hdr, *x, *y, req_comp ? req_comp : *comp);
    }
#endif

#ifndef STBI_NO_TGA
    // test tga last because it's a crappy test!
    if (stbi__tga_test(s))
        return stbi__tga_load(s, x, y, comp, req_comp, ri);
#endif

    return stbi__errpuc("unknown image type", "Image not of any known type, or cor
rupt");
}

static stbi_uc *stbi__convert_16_to_8(stbi__uint16 *orig, int w, int h, int channels)
{
    int i;
    int img_len = w * h * channels;
    stbi_uc *reduced;

```

```

    reduced = (stbi_uc *)stbi__malloc(img_len);
    if (reduced == NULL) return stbi__errpuc("outofmem", "Out of memory");

    for (i = 0; i < img_len; ++i)
        reduced[i] = (stbi_uc)((orig[i] >> 8) & 0xFF); // top half of each byte
// is sufficient approx of 16->8 bit scaling

    STBI_FREE(orig);
    return reduced;
}

static stbi__uint16 *stbi__convert_8_to_16(stbi_uc *orig, int w, int h, int channels)
{
    int i;
    int img_len = w * h * channels;
    stbi__uint16 *enlarged;

    enlarged = (stbi__uint16 *)stbi__malloc(img_len * 2);
    if (enlarged == NULL) return (stbi__uint16 *)stbi__errpuc("outofmem", "Out of
memory");

    for (i = 0; i < img_len; ++i)
        enlarged[i] = (stbi__uint16)((orig[i] << 8) + orig[i]); // replicate t
o high and low byte, maps 0->0, 255->0xffff

    STBI_FREE(orig);
    return enlarged;
}

static void stbi__vertical_flip(void *image, int w, int h, int bytes_per_pixel)
{
    int row;
    size_t bytes_per_row = (size_t)w * bytes_per_pixel;
    stbi_uc temp[2048];
    stbi_uc *bytes = (stbi_uc *)image;

    for (row = 0; row < (h >> 1); row++) {
        stbi_uc *row0 = bytes + row*bytes_per_row;
        stbi_uc *row1 = bytes + (h - row - 1)*bytes_per_row;
        // swap row0 with row1
        size_t bytes_left = bytes_per_row;
        while (bytes_left) {
            size_t bytes_copy = (bytes_left < sizeof(temp)) ? bytes_left :
sizeof(temp);
            memcpy(temp, row0, bytes_copy);
            memcpy(row0, row1, bytes_copy);
            memcpy(row1, temp, bytes_copy);
            row0 += bytes_copy;
            row1 += bytes_copy;
            bytes_left -= bytes_copy;
        }
    }
}

static unsigned char *stbi__load_and_postprocess_8bit(stbi__context *s, int *x, int *y
, int *comp, int req_comp)
{
    stbi__result_info ri;
    void *result = stbi__load_main(s, x, y, comp, req_comp, &ri, 8);

    if (result == NULL)
        return NULL;

    if (ri.bits_per_channel != 8) {
        STBI_ASSERT(ri.bits_per_channel == 16);
        result = stbi__convert_16_to_8((stbi__uint16 *)result, *x, *y, req_com
p == 0 ? *comp : req_comp);
        ri.bits_per_channel = 8;
    }
}

```

```

    // @TODO: move stbi__convert_format to here

    if (stbi__vertically_flip_on_load) {
        int channels = req_comp ? req_comp : *comp;
        stbi__vertical_flip(result, *x, *y, channels * sizeof(stbi_uc));
    }

    return (unsigned char *)result;
}

static stbi__uint16 *stbi__load_and_postprocess_16bit(stbi__context *s, int *x, int *y
, int *comp, int req_comp)
{
    stbi__result_info ri;
    void *result = stbi__load_main(s, x, y, comp, req_comp, &ri, 16);

    if (result == NULL)
        return NULL;

    if (ri.bits_per_channel != 16) {
        STBI_ASSERT(ri.bits_per_channel == 8);
        result = stbi__convert_8_to_16((stbi_uc *)result, *x, *y, req_comp ==
0 ? *comp : req_comp);
        ri.bits_per_channel = 16;
    }

    // @TODO: move stbi__convert_format16 to here
    // @TODO: special case RGB-to-Y (and RGBA-to-YA) for 8-bit-to-16-bit case to k
eep more precision

    if (stbi__vertically_flip_on_load) {
        int channels = req_comp ? req_comp : *comp;
        stbi__vertical_flip(result, *x, *y, channels * sizeof(stbi__uint16));
    }

    return (stbi__uint16 *)result;
}

#ifdef STBI_NO_HDR
static void stbi__float_postprocess(float *result, int *x, int *y, int *comp, int req_
comp)
{
    if (stbi__vertically_flip_on_load && result != NULL) {
        int channels = req_comp ? req_comp : *comp;
        stbi__vertical_flip(result, *x, *y, channels * sizeof(float));
    }
}
#endif

#ifdef STBI_NO_STDIO
static FILE *stbi__fopen(char const *filename, char const *mode)
{
    FILE *f;
#ifdef _MSC_VER
    if (0 != fopen_s(&f, filename, mode))
        f = 0;
#else
    f = fopen(filename, mode);
#endif
    return f;
}

STBIDEF stbi_uc *stbi_load(char const *filename, int *x, int *y, int *comp, int req_co
mp)
{
    FILE *f = stbi__fopen(filename, "rb");

```

```

    unsigned char *result;
    if (!f) return stbi__errpuc("can't fopen", "Unable to open file");
    result = stbi_load_from_file(f, x, y, comp, req_comp);
    fclose(f);
    return result;
}

STBIDEF stbi_uc *stbi_load_from_file(FILE *f, int *x, int *y, int *comp, int req_comp)
{
    unsigned char *result;
    stbi__context s;
    stbi__start_file(&s, f);
    result = stbi__load_and_postprocess_8bit(&s, x, y, comp, req_comp);
    if (result) {
        // need to 'unget' all the characters in the IO buffer
        fseek(f, -(int)(s.img_buffer_end - s.img_buffer), SEEK_CUR);
    }
    return result;
}

STBIDEF stbi__uint16 *stbi_load_from_file_16(FILE *f, int *x, int *y, int *comp, int req_comp)
{
    stbi__uint16 *result;
    stbi__context s;
    stbi__start_file(&s, f);
    result = stbi__load_and_postprocess_16bit(&s, x, y, comp, req_comp);
    if (result) {
        // need to 'unget' all the characters in the IO buffer
        fseek(f, -(int)(s.img_buffer_end - s.img_buffer), SEEK_CUR);
    }
    return result;
}

STBIDEF stbi_us *stbi_load_16(char const *filename, int *x, int *y, int *comp, int req_comp)
{
    FILE *f = stbi__fopen(filename, "rb");
    stbi__uint16 *result;
    if (!f) return (stbi_us *)stbi__errpuc("can't fopen", "Unable to open file");
    result = stbi_load_from_file_16(f, x, y, comp, req_comp);
    fclose(f);
    return result;
}

#endif //!STBI_NO_STDIO

STBIDEF stbi_us *stbi_load_16_from_memory(stbi_uc const *buffer, int len, int *x, int *y, int *channels_in_file, int desired_channels)
{
    stbi__context s;
    stbi__start_mem(&s, buffer, len);
    return stbi__load_and_postprocess_16bit(&s, x, y, channels_in_file, desired_channels);
}

STBIDEF stbi_us *stbi_load_16_from_callbacks(stbi_io_callbacks const *clbk, void *user, int *x, int *y, int *channels_in_file, int desired_channels)
{
    stbi__context s;
    stbi__start_callbacks(&s, (stbi_io_callbacks *)clbk, user);
    return stbi__load_and_postprocess_16bit(&s, x, y, channels_in_file, desired_channels);
}

STBIDEF stbi_uc *stbi_load_from_memory(stbi_uc const *buffer, int len, int *x, int *y, int *comp, int req_comp)
{

```

```

    stbi__context s;
    stbi__start_mem(&s, buffer, len);
    return stbi__load_and_postprocess_8bit(&s, x, y, comp, req_comp);
}

STBIDEF stbi_uc *stbi_load_from_callbacks(stbi_io_callbacks const *clbk, void *user, int *x, int *y, int *comp, int req_comp)
{
    stbi__context s;
    stbi__start_callbacks(&s, (stbi_io_callbacks *)clbk, user);
    return stbi__load_and_postprocess_8bit(&s, x, y, comp, req_comp);
}

#ifndef STBI_NO_LINEAR
static float *stbi__loadf_main(stbi__context *s, int *x, int *y, int *comp, int req_comp)
{
    unsigned char *data;
#ifdef STBI_NO_HDR
    if (stbi__hdr_test(s)) {
        stbi__result_info ri;
        float *hdr_data = stbi__hdr_load(s, x, y, comp, req_comp, &ri);
        if (hdr_data)
            stbi__float_postprocess(hdr_data, x, y, comp, req_comp);
        return hdr_data;
    }
#endif
    data = stbi__load_and_postprocess_8bit(s, x, y, comp, req_comp);
    if (data)
        return stbi__ldr_to_hdr(data, *x, *y, req_comp ? req_comp : *comp);
    return stbi__errpf("unknown image type", "Image not of any known type, or corrupt");
}

STBIDEF float *stbi_loadf_from_memory(stbi_uc const *buffer, int len, int *x, int *y, int *comp, int req_comp)
{
    stbi__context s;
    stbi__start_mem(&s, buffer, len);
    return stbi__loadf_main(&s, x, y, comp, req_comp);
}

STBIDEF float *stbi_loadf_from_callbacks(stbi_io_callbacks const *clbk, void *user, int *x, int *y, int *comp, int req_comp)
{
    stbi__context s;
    stbi__start_callbacks(&s, (stbi_io_callbacks *)clbk, user);
    return stbi__loadf_main(&s, x, y, comp, req_comp);
}

#ifndef STBI_NO_STDIO
STBIDEF float *stbi_loadf(char const *filename, int *x, int *y, int *comp, int req_comp)
{
    float *result;
    FILE *f = stbi__fopen(filename, "rb");
    if (!f) return stbi__errpf("can't fopen", "Unable to open file");
    result = stbi_loadf_from_file(f, x, y, comp, req_comp);
    fclose(f);
    return result;
}

STBIDEF float *stbi_loadf_from_file(FILE *f, int *x, int *y, int *comp, int req_comp)
{
    stbi__context s;
    stbi__start_file(&s, f);
    return stbi__loadf_main(&s, x, y, comp, req_comp);
}
#endif // !STBI_NO_STDIO

```

```

#endif // !STBI_NO_LINEAR

// these is-hdr-or-not is defined independent of whether STBI_NO_LINEAR is
// defined, for API simplicity; if STBI_NO_LINEAR is defined, it always
// reports false!

STBIDEF int stbi_is_hdr_from_memory(stbi_uc const *buffer, int len)
{
#ifndef STBI_NO_HDR
    stbi__context s;
    stbi__start_mem(&s, buffer, len);
    return stbi__hdr_test(&s);
#else
    STBI_NOTUSED(buffer);
    STBI_NOTUSED(len);
    return 0;
#endif
}

#ifndef STBI_NO_STDIO
STBIDEF int stbi_is_hdr(char const *filename)
{
    FILE *f = stbi__fopen(filename, "rb");
    int result = 0;
    if (f) {
        result = stbi_is_hdr_from_file(f);
        fclose(f);
    }
    return result;
}

STBIDEF int stbi_is_hdr_from_file(FILE *f)
{
#ifndef STBI_NO_HDR
    stbi__context s;
    stbi__start_file(&s, f);
    return stbi__hdr_test(&s);
#else
    STBI_NOTUSED(f);
    return 0;
#endif
}
#endif // !STBI_NO_STDIO

STBIDEF int stbi_is_hdr_from_callbacks(stbi_io_callbacks const *clbk, void *user)
{
#ifndef STBI_NO_HDR
    stbi__context s;
    stbi__start_callbacks(&s, (stbi_io_callbacks *)clbk, user);
    return stbi__hdr_test(&s);
#else
    STBI_NOTUSED(clbk);
    STBI_NOTUSED(user);
    return 0;
#endif
}

#ifndef STBI_NO_LINEAR
static float stbi__l2h_gamma = 2.2f, stbi__l2h_scale = 1.0f;

STBIDEF void stbi_ldr_to_hdr_gamma(float gamma) { stbi__l2h_gamma = gamma; }
STBIDEF void stbi_ldr_to_hdr_scale(float scale) { stbi__l2h_scale = scale; }
#endif

static float stbi__h2l_gamma_i = 1.0f / 2.2f, stbi__h2l_scale_i = 1.0f;

STBIDEF void stbi_hdr_to_ldr_gamma(float gamma) { stbi__h2l_gamma_i = 1 / gamma; }
STBIDEF void stbi_hdr_to_ldr_scale(float scale) { stbi__h2l_scale_i = 1 / scale; }

```



```

////////////////////////////////////
//
// Common code used by all image loaders
//

enum
{
    STBI__SCAN_load = 0,
    STBI__SCAN_type,
    STBI__SCAN_header
};

static void stbi__refill_buffer(stbi__context *s)
{
    int n = (s->io.read)(s->io_user_data, (char*)s->buffer_start, s->buflen);
    if (n == 0) {
        // at end of file, treat same as if from memory, but need to handle ca
se
        // where s->img_buffer isn't pointing to safe memory, e.g. 0-byte file
        s->read_from_callbacks = 0;
        s->img_buffer = s->buffer_start;
        s->img_buffer_end = s->buffer_start + 1;
        *s->img_buffer = 0;
    }
    else {
        s->img_buffer = s->buffer_start;
        s->img_buffer_end = s->buffer_start + n;
    }
}

stbi_inline static stbi_uc stbi__get8(stbi__context *s)
{
    if (s->img_buffer < s->img_buffer_end)
        return *s->img_buffer++;
    if (s->read_from_callbacks) {
        stbi__refill_buffer(s);
        return *s->img_buffer++;
    }
    return 0;
}

stbi_inline static int stbi__at_eof(stbi__context *s)
{
    if (s->io.read) {
        if (!(s->io.eof)(s->io_user_data)) return 0;
        // if feof() is true, check if buffer = end
        // special case: we've only got the special 0 character at the end
        if (s->read_from_callbacks == 0) return 1;
    }

    return s->img_buffer >= s->img_buffer_end;
}

static void stbi__skip(stbi__context *s, int n)
{
    if (n < 0) {
        s->img_buffer = s->img_buffer_end;
        return;
    }
    if (s->io.read) {
        int blen = (int)(s->img_buffer_end - s->img_buffer);
        if (blen < n) {
            s->img_buffer = s->img_buffer_end;
            (s->io.skip)(s->io_user_data, n - blen);
            return;
        }
    }
}

```

```

        s->img_buffer += n;
    }

static int stbi__getn(stbi__context *s, stbi_uc *buffer, int n)
{
    if (s->io.read) {
        int blen = (int)(s->img_buffer_end - s->img_buffer);
        if (blen < n) {
            int res, count;

            memcpy(buffer, s->img_buffer, blen);

            count = (s->io.read)(s->io_user_data, (char*)buffer + blen, n
- blen);

            res = (count == (n - blen));
            s->img_buffer = s->img_buffer_end;
            return res;
        }

        if (s->img_buffer + n <= s->img_buffer_end) {
            memcpy(buffer, s->img_buffer, n);
            s->img_buffer += n;
            return 1;
        }
        else
            return 0;
    }

static int stbi__get16be(stbi__context *s)
{
    int z = stbi__get8(s);
    return (z << 8) + stbi__get8(s);
}

static stbi__uint32 stbi__get32be(stbi__context *s)
{
    stbi__uint32 z = stbi__get16be(s);
    return (z << 16) + stbi__get16be(s);
}

#if defined(STBI_NO_BMP) && defined(STBI_NO_TGA) && defined(STBI_NO_GIF)
// nothing
#else
static int stbi__get16le(stbi__context *s)
{
    int z = stbi__get8(s);
    return z + (stbi__get8(s) << 8);
}
#endif

#ifndef STBI_NO_BMP
static stbi__uint32 stbi__get32le(stbi__context *s)
{
    stbi__uint32 z = stbi__get16le(s);
    return z + (stbi__get16le(s) << 16);
}
#endif

#define STBI__BYTECAST(x) ((stbi_uc) ((x) & 255)) // truncate int to byte without wa
rnings

////////////////////////////////////
//
// generic converter from built-in img_n to req_comp
// individual types do this automatically as much as possible (e.g. jpeg
// does all cases internally since it needs to colorspace convert anyway,
// and it never has alpha, so very few cases). png can automatically

```

```

//      interleave an alpha=255 channel, but falls back to this for other cases
//
//      assume data buffer is malloced, so malloc a new one and free that one
//      only failure mode is malloc failing

static stbi_uc stbi__compute_y(int r, int g, int b)
{
    return (stbi_uc)(((r * 77) + (g * 150) + (29 * b)) >> 8);
}

static unsigned char *stbi__convert_format(unsigned char *data, int img_n, int req_comp, unsigned int x, unsigned int y)
{
    int i, j;
    unsigned char *good;

    if (req_comp == img_n) return data;
    STBI_ASSERT(req_comp >= 1 && req_comp <= 4);

    good = (unsigned char *)stbi__malloc_mad3(req_comp, x, y, 0);
    if (good == NULL) {
        STBI_FREE(data);
        return stbi__errpuc("outofmem", "Out of memory");
    }

    for (j = 0; j < (int)y; ++j) {
        unsigned char *src = data + j * x * img_n;
        unsigned char *dest = good + j * x * req_comp;

#define STBI__COMBO(a,b)  ((a)*8+(b))
#define STBI__CASE(a,b)  case STBI__COMBO(a,b): for(i=x-1; i >= 0; --i, src += a, dest += b)
        // convert source image with img_n components to one with req_comp components;
        // avoid switch per pixel, so use switch per scanline and massive macros
        switch (STBI__COMBO(img_n, req_comp)) {
            STBI__CASE(1, 2) { dest[0] = src[0], dest[1] = 255; } break;
            STBI__CASE(1, 3) { dest[0] = dest[1] = dest[2] = src[0]; } break;
            STBI__CASE(1, 4) { dest[0] = dest[1] = dest[2] = src[0], dest[3] = 255; } break;
            STBI__CASE(2, 1) { dest[0] = src[0]; } break;
            STBI__CASE(2, 3) { dest[0] = dest[1] = dest[2] = src[0]; } break;
            STBI__CASE(2, 4) { dest[0] = dest[1] = dest[2] = src[0], dest[3] = src[1]; } break;
            STBI__CASE(3, 4) { dest[0] = src[0], dest[1] = src[1], dest[2] = src[2], dest[3] = 255; } break;
            STBI__CASE(3, 1) { dest[0] = stbi__compute_y(src[0], src[1], src[2]); } break;
            STBI__CASE(3, 2) { dest[0] = stbi__compute_y(src[0], src[1], src[2]), dest[1] = 255; } break;
            STBI__CASE(4, 1) { dest[0] = stbi__compute_y(src[0], src[1], src[2]); } break;
            STBI__CASE(4, 2) { dest[0] = stbi__compute_y(src[0], src[1], src[2]), dest[1] = src[3]; } break;
            STBI__CASE(4, 3) { dest[0] = src[0], dest[1] = src[1], dest[2] = src[2]; } break;
            default: STBI_ASSERT(0);
        }
    }
    #undef STBI__CASE

    STBI_FREE(data);
    return good;
}

static stbi_uint16 stbi__compute_y_16(int r, int g, int b)

```

```

{
    return (stbi__uint16)(((r * 77) + (g * 150) + (29 * b)) >> 8);
}

static stbi__uint16 *stbi__convert_format16(stbi__uint16 *data, int img_n, int req_comp, unsigned int x, unsigned int y)
{
    int i, j;
    stbi__uint16 *good;

    if (req_comp == img_n) return data;
    STBI_ASSERT(req_comp >= 1 && req_comp <= 4);

    good = (stbi__uint16 *)stbi__malloc(req_comp * x * y * 2);
    if (good == NULL) {
        STBI_FREE(data);
        return (stbi__uint16 *)stbi__errpuc("outofmem", "Out of memory");
    }

    for (j = 0; j < (int)y; ++j) {
        stbi__uint16 *src = data + j * x * img_n;
        stbi__uint16 *dest = good + j * x * req_comp;

#define STBI__COMBO(a,b) ((a)*8+(b))
#define STBI__CASE(a,b) case STBI__COMBO(a,b): for(i=x-1; i >= 0; --i, src += a, dest += b)
        // convert source image with img_n components to one with req_comp components;
        // avoid switch per pixel, so use switch per scanline and massive macros
        switch (STBI__COMBO(img_n, req_comp)) {
            STBI__CASE(1, 2) { dest[0] = src[0], dest[1] = 0xffff; } break;
            STBI__CASE(1, 3) { dest[0] = dest[1] = dest[2] = src[0]; } break;
            STBI__CASE(1, 4) { dest[0] = dest[1] = dest[2] = src[0], dest[3] = 0xffff; } break;
            STBI__CASE(2, 1) { dest[0] = src[0]; } break;
            STBI__CASE(2, 3) { dest[0] = dest[1] = dest[2] = src[0]; } break;
            STBI__CASE(2, 4) { dest[0] = dest[1] = dest[2] = src[0], dest[3] = src[1]; } break;
            STBI__CASE(3, 4) { dest[0] = src[0], dest[1] = src[1], dest[2] = src[2], dest[3] = 0xffff; } break;
            STBI__CASE(3, 1) { dest[0] = stbi__compute_y_16(src[0], src[1], src[2]); } break;
            STBI__CASE(3, 2) { dest[0] = stbi__compute_y_16(src[0], src[1], src[2]), dest[1] = 0xffff; } break;
            STBI__CASE(4, 1) { dest[0] = stbi__compute_y_16(src[0], src[1], src[2]); } break;
            STBI__CASE(4, 2) { dest[0] = stbi__compute_y_16(src[0], src[1], src[2]), dest[1] = src[3]; } break;
            STBI__CASE(4, 3) { dest[0] = src[0], dest[1] = src[1], dest[2] = src[2]; } break;
            default: STBI_ASSERT(0);
        }
    }
    #undef STBI__CASE

    STBI_FREE(data);
    return good;
}

#ifdef STBI_NO_LINEAR
static float *stbi__ldr_to_hdr(stbi_uc *data, int x, int y, int comp)
{
    int i, k, n;
    float *output;
    if (!data) return NULL;

```

```

        output = (float *)stbi__malloc_mad4(x, y, comp, sizeof(float), 0);
        if (output == NULL) { STBI_FREE(data); return stbi__errpf("outofmem", "Out of
memory"); }
        // compute number of non-alpha components
        if (comp & 1) n = comp; else n = comp - 1;
        for (i = 0; i < x*y; ++i) {
            for (k = 0; k < n; ++k) {
                output[i*comp + k] = (float)(power(data[i*comp + k] / 255.0f,
stbi__l2h_gamma) * stbi__l2h_scale);
            }
            if (k < comp) output[i*comp + k] = data[i*comp + k] / 255.0f;
        }
        STBI_FREE(data);
        return output;
    }
#endif

#ifdef STBI_NO_HDR
#define stbi__float2int(x) ((int) (x))
static stbi_uc *stbi__hdr_to_ldr(float *data, int x, int y, int comp)
{
    int i, k, n;
    stbi_uc *output;
    if (!data) return NULL;
    output = (stbi_uc *)stbi__malloc_mad3(x, y, comp, 0);
    if (output == NULL) { STBI_FREE(data); return stbi__errpuc("outofmem", "Out of
memory"); }
    // compute number of non-alpha components
    if (comp & 1) n = comp; else n = comp - 1;
    for (i = 0; i < x*y; ++i) {
        for (k = 0; k < n; ++k) {
            float z = (float)power(data[i*comp + k] * stbi__h2l_scale_i, s
tbi__h2l_gamma_i) * 255 + 0.5f;
            if (z < 0) z = 0;
            if (z > 255) z = 255;
            output[i*comp + k] = (stbi_uc)stbi__float2int(z);
        }
        if (k < comp) {
            float z = data[i*comp + k] * 255 + 0.5f;
            if (z < 0) z = 0;
            if (z > 255) z = 255;
            output[i*comp + k] = (stbi_uc)stbi__float2int(z);
        }
    }
    STBI_FREE(data);
    return output;
}
#endif

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
//
// "baseline" JPEG/JFIF decoder
//
// simple implementation
// - doesn't support delayed output of y-dimension
// - simple interface (only one output format: 8-bit interleaved RGB)
// - doesn't try to recover corrupt jpegs
// - doesn't allow partial loading, loading multiple at once
// - still fast on x86 (copying globals into locals doesn't help x86)
// - allocates lots of intermediate memory (full size of all components)
// - non-interleaved case requires this anyway
// - allows good upsampling (see next)
//
// high-quality
// - upsampled channels are bilinearly interpolated, even across blocks
// - quality integer IDCT derived from IJG's 'slow'
//
// performance
// - fast huffman; reasonable integer IDCT
// - some SIMD kernels for common paths on targets with SSE2/NEON
// - uses a lot of intermediate memory, could cache poorly

```

```

#ifndef STBI_NO_JPEG

// huffman decoding acceleration
#define FAST_BITS 9 // larger handles more cases; smaller stomps less cache

typedef struct
{
    stbi_uc fast[1 << FAST_BITS];
    // weirdly, repacking this into AoS is a 10% speed loss, instead of a win
    stbi_uint16 code[256];
    stbi_uc values[256];
    stbi_uc size[257];
    unsigned int maxcode[18];
    int delta[17]; // old 'firstsymbol' - old 'firstcode'
} stbi__huffman;

typedef struct
{
    stbi__context *s;
    stbi__huffman huff_dc[4];
    stbi__huffman huff_ac[4];
    stbi_uint16 dequant[4][64];
    stbi_int16 fast_ac[4][1 << FAST_BITS];

    // sizes for components, interleaved MCUs
    int img_h_max, img_v_max;
    int img_mcu_x, img_mcu_y;
    int img_mcu_w, img_mcu_h;

    // definition of jpeg image component
    struct
    {
        int id;
        int h, v;
        int tq;
        int hd, ha;
        int dc_pred;

        int x, y, w2, h2;
        stbi_uc *data;
        void *raw_data, *raw_coeff;
        stbi_uc *linebuf;
        short *coeff; // progressive only
        int coeff_w, coeff_h; // number of 8x8 coefficient blocks
    } img_comp[4];

    stbi_uint32 code_buffer; // jpeg entropy-coded buffer
    int code_bits; // number of valid bits
    unsigned char marker; // marker seen while filling entropy buffer
    int nomore; // flag if we saw a marker so must stop

    int progressive;
    int spec_start;
    int spec_end;
    int succ_high;
    int succ_low;
    int eob_run;
    int jfif;
    int app14_color_transform; // Adobe APP14 tag
    int rgb;

    int scan_n, order[4];
    int restart_interval, todo;

    // kernels
    void(*idct_block_kernel)(stbi_uc *out, int out_stride, short data[64]);
    void(*YCbCr_to_RGB_kernel)(stbi_uc *out, const stbi_uc *y, const stbi_uc *pcb,
const stbi_uc *pcr, int count, int step);

```

```

    stbi_uc *(*resample_row_hv_2_kernel)(stbi_uc *out, stbi_uc *in_near, stbi_uc *
in_far, int w, int hs);
} stbi__jpeg;

static int stbi__build_huffman(stbi__huffman *h, int *count)
{
    int i, j, k = 0, code;
    // build size list for each symbol (from JPEG spec)
    for (i = 0; i < 16; ++i)
        for (j = 0; j < count[i]; ++j)
            h->size[k++] = (stbi_uc)(i + 1);
    h->size[k] = 0;

    // compute actual symbols (from jpeg spec)
    code = 0;
    k = 0;
    for (j = 1; j <= 16; ++j) {
        // compute delta to add to code to compute symbol id
        h->delta[j] = k - code;
        if (h->size[k] == j) {
            while (h->size[k] == j)
                h->code[k++] = (stbi__uint16)(code++);
            if (code - 1 >= (1 << j)) return stbi__err("bad code lengths",
"Corrupt JPEG");
        }
        // compute largest code + 1 for this size, preshifted as needed later
        h->maxcode[j] = code << (16 - j);
        code <<= 1;
    }
    h->maxcode[j] = 0xffffffff;

    // build non-spec acceleration table; 255 is flag for not-accelerated
    memset(h->fast, 255, 1 << FAST_BITS);
    for (i = 0; i < k; ++i) {
        int s = h->size[i];
        if (s <= FAST_BITS) {
            int c = h->code[i] << (FAST_BITS - s);
            int m = 1 << (FAST_BITS - s);
            for (j = 0; j < m; ++j) {
                h->fast[c + j] = (stbi_uc)i;
            }
        }
    }
    return 1;
}

// build a table that decodes both magnitude and value of small ACs in
// one go.
static void stbi__build_fast_ac(stbi__int16 *fast_ac, stbi__huffman *h)
{
    int i;
    for (i = 0; i < (1 << FAST_BITS); ++i) {
        stbi_uc fast = h->fast[i];
        fast_ac[i] = 0;
        if (fast < 255) {
            int rs = h->values[fast];
            int run = (rs >> 4) & 15;
            int magbits = rs & 15;
            int len = h->size[fast];

            if (magbits && len + magbits <= FAST_BITS) {
                // magnitude code followed by receive_extend code
                int k = ((i << len) & ((1 << FAST_BITS) - 1)) >> (FAST
_BITS - magbits);

                int m = 1 << (magbits - 1);
                if (k < m) k += (~0U << magbits) + 1;
                // if the result is small enough, we can fit it in fas
t_ac table

                if (k >= -128 && k <= 127)

```

```

fast_ac[i] = (stbi__int16)((k << 8) + (run <<
4) + (len + magbits));
    }
}

static void stbi__grow_buffer_unsafe(stbi__jpeg *j)
{
    do {
        int b = j->nomore ? 0 : stbi__get8(j->s);
        if (b == 0xff) {
            int c = stbi__get8(j->s);
            while (c == 0xff) c = stbi__get8(j->s); // consume fill bytes
            if (c != 0) {
                j->marker = (unsigned char)c;
                j->nomore = 1;
                return;
            }
        }
        j->code_buffer |= b << (24 - j->code_bits);
        j->code_bits += 8;
    } while (j->code_bits <= 24);
}

// (1 << n) - 1
static stbi__uint32 stbi__bmask[17] = { 0,1,3,7,15,31,63,127,255,511,1023,2047,4095,81
91,16383,32767,65535 };

// decode a jpeg huffman value from the bitstream
stbi_inline static int stbi__jpeg_huff_decode(stbi__jpeg *j, stbi__huffman *h)
{
    unsigned int temp;
    int c, k;

    if (j->code_bits < 16) stbi__grow_buffer_unsafe(j);

    // look at the top FAST_BITS and determine what symbol ID it is,
    // if the code is <= FAST_BITS
    c = (j->code_buffer >> (32 - FAST_BITS)) & ((1 << FAST_BITS) - 1);
    k = h->fast[c];
    if (k < 255) {
        int s = h->size[k];
        if (s > j->code_bits)
            return -1;
        j->code_buffer <<= s;
        j->code_bits -= s;
        return h->values[k];
    }

    // naive test is to shift the code_buffer down so k bits are
    // valid, then test against maxcode. To speed this up, we've
    // preshifted maxcode left so that it has (16-k) 0s at the
    // end; in other words, regardless of the number of bits, it
    // wants to be compared against something shifted to have 16;
    // that way we don't need to shift inside the loop.
    temp = j->code_buffer >> 16;
    for (k = FAST_BITS + 1; ; ++k)
        if (temp < h->maxcode[k])
            break;

    if (k == 17) {
        // error! code not found
        j->code_bits -= 16;
        return -1;
    }

    if (k > j->code_bits)
        return -1;
}

```



```

    // convert the huffman code to the symbol id
    c = ((j->code_buffer >> (32 - k)) & stbi__bmask[k]) + h->delta[k];
    STBI_ASSERT((((j->code_buffer) >> (32 - h->size[c])) & stbi__bmask[h->size[c]]
) == h->code[c]);

    // convert the id to a symbol
    j->code_bits -= k;
    j->code_buffer <<= k;
    return h->values[c];
}

// bias[n] = (-1<<n) + 1
static int const stbi__jbias[16] = { 0,-1,-3,-7,-15,-31,-63,-127,-255,-511,-1023,-2047
,-4095,-8191,-16383,-32767 };

// combined JPEG 'receive' and JPEG 'extend', since baseline
// always extends everything it receives.
stbi_inline static int stbi__extend_receive(stbi__jpeg *j, int n)
{
    unsigned int k;
    int sgn;
    if (j->code_bits < n) stbi__grow_buffer_unsafe(j);

    sgn = (stbi__int32)j->code_buffer >> 31; // sign bit is always in MSB
    k = stbi_lrot(j->code_buffer, n);
    STBI_ASSERT(n >= 0 && n < (int)(sizeof(stbi__bmask) / sizeof(*stbi__bmask)));
    j->code_buffer = k & ~stbi__bmask[n];
    k &= stbi__bmask[n];
    j->code_bits -= n;
    return k + (stbi__jbias[n] & ~sgn);
}

// get some unsigned bits
stbi_inline static int stbi__jpeg_get_bits(stbi__jpeg *j, int n)
{
    unsigned int k;
    if (j->code_bits < n) stbi__grow_buffer_unsafe(j);
    k = stbi_lrot(j->code_buffer, n);
    j->code_buffer = k & ~stbi__bmask[n];
    k &= stbi__bmask[n];
    j->code_bits -= n;
    return k;
}

stbi_inline static int stbi__jpeg_get_bit(stbi__jpeg *j)
{
    unsigned int k;
    if (j->code_bits < 1) stbi__grow_buffer_unsafe(j);
    k = j->code_buffer;
    j->code_buffer <<= 1;
    --j->code_bits;
    return k & 0x80000000;
}

// given a value that's at position X in the zigzag stream,
// where does it appear in the 8x8 matrix coded as row-major?
static stbi_uc stbi__jpeg_dezigzag[64 + 15] =
{
    0, 1, 8, 16, 9, 2, 3, 10,
    17, 24, 32, 25, 18, 11, 4, 5,
    12, 19, 26, 33, 40, 48, 41, 34,
    27, 20, 13, 6, 7, 14, 21, 28,
    35, 42, 49, 56, 57, 50, 43, 36,
    29, 22, 15, 23, 30, 37, 44, 51,
    58, 59, 52, 45, 38, 31, 39, 46,
    53, 60, 61, 54, 47, 55, 62, 63,
    // let corrupt input sample past end
    63, 63, 63, 63, 63, 63, 63, 63,
    63, 63, 63, 63, 63, 63, 63
}

```

```

};

// decode one 64-entry block--
static int stbi__jpeg_decode_block(stbi__jpeg *j, short data[64], stbi__huffman *hdc,
stbi__huffman *hac, stbi__int16 *fac, int b, stbi__uint16 *dequant)
{
    int diff, dc, k;
    int t;

    if (j->code_bits < 16) stbi__grow_buffer_unsafe(j);
    t = stbi__jpeg_huff_decode(j, hdc);
    if (t < 0) return stbi__err("bad huffman code", "Corrupt JPEG");

    // 0 all the ac values now so we can do it 32-bits at a time
    memset(data, 0, 64 * sizeof(data[0]));

    diff = t ? stbi__extend_receive(j, t) : 0;
    dc = j->img_comp[b].dc_pred + diff;
    j->img_comp[b].dc_pred = dc;
    data[0] = (short)(dc * dequant[0]);

    // decode AC components, see JPEG spec
    k = 1;
    do {
        unsigned int zig;
        int c, r, s;
        if (j->code_bits < 16) stbi__grow_buffer_unsafe(j);
        c = (j->code_buffer >> (32 - FAST_BITS)) & ((1 << FAST_BITS) - 1);
        r = fac[c];
        if (r) { // fast-AC path
            k += (r >> 4) & 15; // run
            s = r & 15; // combined length
            j->code_buffer <<= s;
            j->code_bits -= s;
            // decode into unzigzag'd location
            zig = stbi__jpeg_dezigzag[k++];
            data[zig] = (short)((r >> 8) * dequant[zig]);
        }
        else {
            int rs = stbi__jpeg_huff_decode(j, hac);
            if (rs < 0) return stbi__err("bad huffman code", "Corrupt JPEG");

            s = rs & 15;
            r = rs >> 4;
            if (s == 0) {
                if (rs != 0xf0) break; // end block
                k += 16;
            }
            else {
                k += r;
                // decode into unzigzag'd location
                zig = stbi__jpeg_dezigzag[k++];
                data[zig] = (short)(stbi__extend_receive(j, s) * dequant[zig]);
            }
        }
    } while (k < 64);
    return 1;
}

static int stbi__jpeg_decode_block_prog_dc(stbi__jpeg *j, short data[64], stbi__huffman *hdc, int b)
{
    int diff, dc;
    int t;
    if (j->spec_end != 0) return stbi__err("can't merge dc and ac", "Corrupt JPEG");

    if (j->code_bits < 16) stbi__grow_buffer_unsafe(j);

```

```

    if (j->succ_high == 0) {
        // first scan for DC coefficient, must be first
        memset(data, 0, 64 * sizeof(data[0])); // 0 all the ac values now
        t = stbi__jpeg_huff_decode(j, hdc);
        diff = t ? stbi__extend_receive(j, t) : 0;

        dc = j->img_comp[b].dc_pred + diff;
        j->img_comp[b].dc_pred = dc;
        data[0] = (short)(dc << j->succ_low);
    }
    else {
        // refinement scan for DC coefficient
        if (stbi__jpeg_get_bit(j))
            data[0] += (short)(1 << j->succ_low);
    }
    return 1;
}

// @OPTIMIZE: store non-zigzagged during the decode passes,
// and only de-zigzag when dequantizing
static int stbi__jpeg_decode_block_prog_ac(stbi__jpeg *j, short data[64], stbi__huffman *hac, stbi__int16 *fac)
{
    int k;
    if (j->spec_start == 0) return stbi__err("can't merge dc and ac", "Corrupt JPEG");

    if (j->succ_high == 0) {
        int shift = j->succ_low;

        if (j->eob_run) {
            --j->eob_run;
            return 1;
        }

        k = j->spec_start;
        do {
            unsigned int zig;
            int c, r, s;
            if (j->code_bits < 16) stbi__grow_buffer_unsafe(j);
            c = (j->code_buffer >> (32 - FAST_BITS)) & ((1 << FAST_BITS) -
1);

            r = fac[c];
            if (r) { // fast-AC path
                k += (r >> 4) & 15; // run
                s = r & 15; // combined length
                j->code_buffer <<= s;
                j->code_bits -= s;
                zig = stbi__jpeg_dezigzag[k++];
                data[zig] = (short)((r >> 8) << shift);
            }
            else {
                int rs = stbi__jpeg_huff_decode(j, hac);
                if (rs < 0) return stbi__err("bad huffman code", "Corrupt JPEG");

                s = rs & 15;
                r = rs >> 4;
                if (s == 0) {
                    if (r < 15) {
                        j->eob_run = (1 << r);
                        if (r)
                            j->eob_run += stbi__jpeg_get_bits(j, r);

                        --j->eob_run;
                        break;
                    }
                    k += 16;
                }
            }
        } while (k < j->spec_end);
    }
}

```

```

else {
    k += r;
    zig = stbi__jpeg_dezigzag[k++];
    data[zig] = (short)(stbi__extend_receive(j, s)
<< shift);
}
} while (k <= j->spec_end);
}
else {
    // refinement scan for these AC coefficients
    short bit = (short)(1 << j->succ_low);
    if (j->eob_run) {
        --j->eob_run;
        for (k = j->spec_start; k <= j->spec_end; ++k) {
            short *p = &data[stbi__jpeg_dezigzag[k]];
            if (*p != 0)
                if (stbi__jpeg_get_bit(j))
                    if ((*p & bit) == 0) {
                        if (*p > 0)
                            *p += bit;
                        else
                            *p -= bit;
                    }
        }
    }
    else {
        k = j->spec_start;
        do {
            int r, s;
            int rs = stbi__jpeg_huff_decode(j, hac); // @OPTIMIZE
            see if we can use the fast path here, advance-by-r is so slow, eh
            if (rs < 0) return stbi__err("bad huffman code", "Corrupt JPEG");

            s = rs & 15;
            r = rs >> 4;
            if (s == 0) {
                if (r < 15) {
                    j->eob_run = (1 << r) - 1;
                    if (r)
                        j->eob_run += stbi__jpeg_get_b
its(j, r);

                    r = 64; // force end of block
                }
                else {
                    // r=15 s=0 should write 16 0s, so we
                    // a run of 15 0s and then write s (wh
                    // so we don't have to do anything spe
                    cial here
                }
            }
        }
        else {
            if (s != 1) return stbi__err("bad huffman code
", "Corrupt JPEG");

            // sign bit
            if (stbi__jpeg_get_bit(j))
                s = bit;
            else
                s = -bit;
        }

        // advance by r
        while (k <= j->spec_end) {
            short *p = &data[stbi__jpeg_dezigzag[k++]];
            if (*p != 0) {

```

```

        if (stbi__jpeg_get_bit(j))
            if ((*p & bit) == 0) {
                if (*p > 0)
                    *p += bit;
                else
                    *p -= bit;
            }
        }
    } else {
        if (r == 0) {
            *p = (short)s;
            break;
        }
        --r;
    }
} while (k <= j->spec_end);
}
return 1;
}

// take a -128..127 value and stbi__clamp it and convert to 0..255
stbi_inline static stbi_uc stbi__clamp(int x)
{
    // trick to use a single test to catch both cases
    if ((unsigned int)x > 255) {
        if (x < 0) return 0;
        if (x > 255) return 255;
    }
    return (stbi_uc)x;
}

#define stbi__f2f(x)  ((int) ((x) * 4096 + 0.5))
#define stbi__fsh(x)  ((x) << 12)

// derived from jidctint -- DCT_ISLOW
#define STBI__IDCT_1D(s0,s1,s2,s3,s4,s5,s6,s7) \
    int t0,t1,t2,t3,p1,p2,p3,p4,p5,x0,x1,x2,x3; \
    p2 = s2; \
    p3 = s6; \
    p1 = (p2+p3) * stbi__f2f(0.5411961f); \
    t2 = p1 + p3*stbi__f2f(-1.847759065f); \
    t3 = p1 + p2*stbi__f2f( 0.765366865f); \
    p2 = s0; \
    p3 = s4; \
    t0 = stbi__fsh(p2+p3); \
    t1 = stbi__fsh(p2-p3); \
    x0 = t0+t3; \
    x3 = t0-t3; \
    x1 = t1+t2; \
    x2 = t1-t2; \
    t0 = s7; \
    t1 = s5; \
    t2 = s3; \
    t3 = s1; \
    p3 = t0+t2; \
    p4 = t1+t3; \
    p1 = t0+t3; \
    p2 = t1+t2; \
    p5 = (p3+p4)*stbi__f2f( 1.175875602f); \
    t0 = t0*stbi__f2f( 0.298631336f); \
    t1 = t1*stbi__f2f( 2.053119869f); \
    t2 = t2*stbi__f2f( 3.072711026f); \
    t3 = t3*stbi__f2f( 1.501321110f); \
    p1 = p5 + p1*stbi__f2f(-0.899976223f); \
    p2 = p5 + p2*stbi__f2f(-2.562915447f); \
    p3 = p3*stbi__f2f(-1.961570560f); \
    p4 = p4*stbi__f2f(-0.390180644f); \

```

```

t3 += p1+p4;           \
t2 += p2+p3;           \
t1 += p2+p4;           \
t0 += p1+p3;

static void stbi__idct_block(stbi_uc *out, int out_stride, short data[64])
{
    int i, val[64], *v = val;
    stbi_uc *o;
    short *d = data;

    // columns
    for (i = 0; i < 8; ++i, ++d, ++v) {
        // if all zeroes, shortcut -- this avoids dequantizing 0s and IDCTing
        if (d[8] == 0 && d[16] == 0 && d[24] == 0 && d[32] == 0
            && d[40] == 0 && d[48] == 0 && d[56] == 0) {
            // no shortcut          0 seconds
            // (1|2|3|4|5|6|7)==0    0 seconds
            // all separate          -0.047 seconds
            // 1 && 2|3 && 4|5 && 6|7: -0.047 seconds
            int dcterm = d[0] << 2;
            v[0] = v[8] = v[16] = v[24] = v[32] = v[40] = v[48] = v[56] =
dcterm;
        }
        else {
            STBI__IDCT_1D(d[0], d[8], d[16], d[24], d[32], d[40], d[48], d
[56])
            // constants scaled things up by 1<<12; let's bring th
em back
            // down, but keep 2 extra bits of precision
            x0 += 512; x1 += 512; x2 += 512; x3 += 512;
            v[0] = (x0 + t3) >> 10;
            v[56] = (x0 - t3) >> 10;
            v[8] = (x1 + t2) >> 10;
            v[48] = (x1 - t2) >> 10;
            v[16] = (x2 + t1) >> 10;
            v[40] = (x2 - t1) >> 10;
            v[24] = (x3 + t0) >> 10;
            v[32] = (x3 - t0) >> 10;
        }
    }

    for (i = 0, v = val, o = out; i < 8; ++i, v += 8, o += out_stride) {
        // no fast case since the first 1D IDCT spread components out
        STBI__IDCT_1D(v[0], v[1], v[2], v[3], v[4], v[5], v[6], v[7])
        // constants scaled things up by 1<<12, plus we had 1<<2 from
first
        // loop, plus horizontal and vertical each scale by sqrt(8) so
together
        // we've got an extra 1<<3, so 1<<17 total we need to remove.
        // so we want to round that, which means adding 0.5 * 1<<17,
        // aka 65536. Also, we'll end up with -128 to 127 that we want
        // to encode as 0..255 by adding 128, so we'll add that before
the shift
        x0 += 65536 + (128 << 17);
        x1 += 65536 + (128 << 17);
        x2 += 65536 + (128 << 17);
        x3 += 65536 + (128 << 17);
        // tried computing the shifts into temps, or'ing the temps to see
        // if any were out of range, but that was slower
        o[0] = stbi__clamp((x0 + t3) >> 17);
        o[7] = stbi__clamp((x0 - t3) >> 17);
        o[1] = stbi__clamp((x1 + t2) >> 17);
        o[6] = stbi__clamp((x1 - t2) >> 17);
        o[2] = stbi__clamp((x2 + t1) >> 17);
        o[5] = stbi__clamp((x2 - t1) >> 17);
        o[3] = stbi__clamp((x3 + t0) >> 17);
        o[4] = stbi__clamp((x3 - t0) >> 17);
    }
}

```

```

}

#ifdef STBI_SSE2
// sse2 integer IDCT. not the fastest possible implementation but it
// produces bit-identical results to the generic C version so it's
// fully "transparent".
static void stbi__idct_simd(stbi_uc *out, int out_stride, short data[64])
{
    // This is constructed to match our regular (generic) integer IDCT exactly.
    __m128i row0, row1, row2, row3, row4, row5, row6, row7;
    __m128i tmp;

    // dot product constant: even elems=x, odd elems=y
#define dct_const(x,y)  _mm_setr_epi16((x),(y),(x),(y),(x),(y),(x),(y))

    // out(0) = c0[even]*x + c0[odd]*y    (c0, x, y 16-bit, out 32-bit)
    // out(1) = c1[even]*x + c1[odd]*y
#define dct_rot(out0,out1, x,y,c0,c1) \
    __m128i c0##lo = _mm_unpacklo_epi16((x),(y)); \
    __m128i c0##hi = _mm_unpackhi_epi16((x),(y)); \
    __m128i out0##_l = _mm_madd_epi16(c0##lo, c0); \
    __m128i out0##_h = _mm_madd_epi16(c0##hi, c0); \
    __m128i out1##_l = _mm_madd_epi16(c0##lo, c1); \
    __m128i out1##_h = _mm_madd_epi16(c0##hi, c1)

    // out = in << 12 (in 16-bit, out 32-bit)
#define dct_widen(out, in) \
    __m128i out##_l = _mm_srai_epi32(_mm_unpacklo_epi16(_mm_setzero_si128(), (in)), \
4); \
    __m128i out##_h = _mm_srai_epi32(_mm_unpackhi_epi16(_mm_setzero_si128(), (in)), \
4)

    // wide add
#define dct_wadd(out, a, b) \
    __m128i out##_l = _mm_add_epi32(a##_l, b##_l); \
    __m128i out##_h = _mm_add_epi32(a##_h, b##_h)

    // wide sub
#define dct_wsub(out, a, b) \
    __m128i out##_l = _mm_sub_epi32(a##_l, b##_l); \
    __m128i out##_h = _mm_sub_epi32(a##_h, b##_h)

    // butterfly a/b, add bias, then shift by "s" and pack
#define dct_bfly32o(out0, out1, a,b,bias,s) \
    { \
        __m128i abiaised_l = _mm_add_epi32(a##_l, bias); \
        __m128i abiaised_h = _mm_add_epi32(a##_h, bias); \
        dct_wadd(sum, abiaised, b); \
        dct_wsub(dif, abiaised, b); \
        out0 = _mm_packs_epi32(_mm_srai_epi32(sum_l, s), _mm_srai_epi32(sum_h, s)); \
        out1 = _mm_packs_epi32(_mm_srai_epi32(dif_l, s), _mm_srai_epi32(dif_h, s)); \
    }

    // 8-bit interleave step (for transposes)
#define dct_interleave8(a, b) \
    tmp = a; \
    a = _mm_unpacklo_epi8(a, b); \
    b = _mm_unpackhi_epi8(tmp, b)

    // 16-bit interleave step (for transposes)
#define dct_interleave16(a, b) \
    tmp = a; \
    a = _mm_unpacklo_epi16(a, b); \
    b = _mm_unpackhi_epi16(tmp, b)

#define dct_pass(bias,shift) \
    { \
        /* even part */ \
        dct_rot(t2e,t3e, row2,row6, rot0_0,rot0_1); \

```

```

    __m128i sum04 = _mm_add_epi16(row0, row4); \
    __m128i dif04 = _mm_sub_epi16(row0, row4); \
    dct_widen(t0e, sum04); \
    dct_widen(t1e, dif04); \
    dct_wadd(x0, t0e, t3e); \
    dct_wsub(x3, t0e, t3e); \
    dct_wadd(x1, t1e, t2e); \
    dct_wsub(x2, t1e, t2e); \
    /* odd part */ \
    dct_rot(y0o,y2o, row7,row3, rot2_0,rot2_1); \
    dct_rot(y1o,y3o, row5,row1, rot3_0,rot3_1); \
    __m128i sum17 = _mm_add_epi16(row1, row7); \
    __m128i sum35 = _mm_add_epi16(row3, row5); \
    dct_rot(y4o,y5o, sum17,sum35, rot1_0,rot1_1); \
    dct_wadd(x4, y0o, y4o); \
    dct_wadd(x5, y1o, y5o); \
    dct_wadd(x6, y2o, y5o); \
    dct_wadd(x7, y3o, y4o); \
    dct_bfly32o(row0,row7, x0,x7,bias,shift); \
    dct_bfly32o(row1,row6, x1,x6,bias,shift); \
    dct_bfly32o(row2,row5, x2,x5,bias,shift); \
    dct_bfly32o(row3,row4, x3,x4,bias,shift); \
}

__m128i rot0_0 = dct_const(stbi__f2f(0.5411961f), stbi__f2f(0.5411961f) + stbi
__f2f(-1.847759065f));
__m128i rot0_1 = dct_const(stbi__f2f(0.5411961f) + stbi__f2f(0.765366865f), st
bi__f2f(0.5411961f));
__m128i rot1_0 = dct_const(stbi__f2f(1.175875602f) + stbi__f2f(-0.899976223f),
stbi__f2f(1.175875602f));
__m128i rot1_1 = dct_const(stbi__f2f(1.175875602f), stbi__f2f(1.175875602f) +
stbi__f2f(-2.562915447f));
__m128i rot2_0 = dct_const(stbi__f2f(-1.961570560f) + stbi__f2f(0.298631336f),
stbi__f2f(-1.961570560f));
__m128i rot2_1 = dct_const(stbi__f2f(-1.961570560f), stbi__f2f(-1.961570560f)
+ stbi__f2f(3.072711026f));
__m128i rot3_0 = dct_const(stbi__f2f(-0.390180644f) + stbi__f2f(2.053119869f),
stbi__f2f(-0.390180644f));
__m128i rot3_1 = dct_const(stbi__f2f(-0.390180644f), stbi__f2f(-0.390180644f)
+ stbi__f2f(1.501321110f));

// rounding biases in column/row passes, see stbi_idct_block for explanation.
__m128i bias_0 = _mm_set1_epi32(512);
__m128i bias_1 = _mm_set1_epi32(65536 + (128 << 17));

// load
row0 = _mm_load_si128((const __m128i *) (data + 0 * 8));
row1 = _mm_load_si128((const __m128i *) (data + 1 * 8));
row2 = _mm_load_si128((const __m128i *) (data + 2 * 8));
row3 = _mm_load_si128((const __m128i *) (data + 3 * 8));
row4 = _mm_load_si128((const __m128i *) (data + 4 * 8));
row5 = _mm_load_si128((const __m128i *) (data + 5 * 8));
row6 = _mm_load_si128((const __m128i *) (data + 6 * 8));
row7 = _mm_load_si128((const __m128i *) (data + 7 * 8));

// column pass
dct_pass(bias_0, 10);

{
    // 16bit 8x8 transpose pass 1
    dct_interleave16(row0, row4);
    dct_interleave16(row1, row5);
    dct_interleave16(row2, row6);
    dct_interleave16(row3, row7);

    // transpose pass 2
    dct_interleave16(row0, row2);
    dct_interleave16(row1, row3);
    dct_interleave16(row4, row6);
}

```



```

        dct_interleave16(row5, row7);

        // transpose pass 3
        dct_interleave16(row0, row1);
        dct_interleave16(row2, row3);
        dct_interleave16(row4, row5);
        dct_interleave16(row6, row7);
    }

    // row pass
    dct_pass(bias_1, 17);

    {
        // pack
        __m128i p0 = _mm_packus_epi16(row0, row1); // a0a1a2a3...a7b0b1b2b3...
b7
        __m128i p1 = _mm_packus_epi16(row2, row3);
        __m128i p2 = _mm_packus_epi16(row4, row5);
        __m128i p3 = _mm_packus_epi16(row6, row7);

        // 8bit 8x8 transpose pass 1
        dct_interleave8(p0, p2); // a0e0a1e1...
        dct_interleave8(p1, p3); // c0g0c1g1...

                                                                    // transpose pass 2
        dct_interleave8(p0, p1); // a0c0e0g0...
        dct_interleave8(p2, p3); // b0d0f0h0...

                                                                    // transpose pass 3
        dct_interleave8(p0, p2); // a0b0c0d0...
        dct_interleave8(p1, p3); // a4b4c4d4...

                                                                    // store
        _mm_storel_epi64((__m128i *) out, p0); out += out_stride;
        _mm_storel_epi64((__m128i *) out, _mm_shuffle_epi32(p0, 0x4e)); out +=
out_stride;
        _mm_storel_epi64((__m128i *) out, p2); out += out_stride;
        _mm_storel_epi64((__m128i *) out, _mm_shuffle_epi32(p2, 0x4e)); out +=
out_stride;
        _mm_storel_epi64((__m128i *) out, p1); out += out_stride;
        _mm_storel_epi64((__m128i *) out, _mm_shuffle_epi32(p1, 0x4e)); out +=
out_stride;
        _mm_storel_epi64((__m128i *) out, p3); out += out_stride;
        _mm_storel_epi64((__m128i *) out, _mm_shuffle_epi32(p3, 0x4e));
    }

#undef dct_const
#undef dct_rot
#undef dct_widen
#undef dct_wadd
#undef dct_wsub
#undef dct_bfly32o
#undef dct_interleave8
#undef dct_interleave16
#undef dct_pass
}

#endif // STBI_SSE2

#ifdef STBI_NEON

// NEON integer IDCT. should produce bit-identical
// results to the generic C version.
static void stbi__idct_simd(stbi_uc *out, int out_stride, short data[64])
{
    int16x8_t row0, row1, row2, row3, row4, row5, row6, row7;

    int16x4_t rot0_0 = vdup_n_s16(stbi__f2f(0.5411961f));
    int16x4_t rot0_1 = vdup_n_s16(stbi__f2f(-1.847759065f));

```

```

int16x4_t rot0_2 = vdup_n_s16(stbi_f2f(0.765366865f));
int16x4_t rot1_0 = vdup_n_s16(stbi_f2f(1.175875602f));
int16x4_t rot1_1 = vdup_n_s16(stbi_f2f(-0.899976223f));
int16x4_t rot1_2 = vdup_n_s16(stbi_f2f(-2.562915447f));
int16x4_t rot2_0 = vdup_n_s16(stbi_f2f(-1.961570560f));
int16x4_t rot2_1 = vdup_n_s16(stbi_f2f(-0.390180644f));
int16x4_t rot3_0 = vdup_n_s16(stbi_f2f(0.298631336f));
int16x4_t rot3_1 = vdup_n_s16(stbi_f2f(2.053119869f));
int16x4_t rot3_2 = vdup_n_s16(stbi_f2f(3.072711026f));
int16x4_t rot3_3 = vdup_n_s16(stbi_f2f(1.501321110f));

#define dct_long_mul(out, inq, coeff) \
    int32x4_t out##_l = vmull_s16(vget_low_s16(inq), coeff); \
    int32x4_t out##_h = vmull_s16(vget_high_s16(inq), coeff)

#define dct_long_mac(out, acc, inq, coeff) \
    int32x4_t out##_l = vmlal_s16(acc##_l, vget_low_s16(inq), coeff); \
    int32x4_t out##_h = vmlal_s16(acc##_h, vget_high_s16(inq), coeff)

#define dct_widen(out, inq) \
    int32x4_t out##_l = vshll_n_s16(vget_low_s16(inq), 12); \
    int32x4_t out##_h = vshll_n_s16(vget_high_s16(inq), 12)

    // wide add
#define dct_wadd(out, a, b) \
    int32x4_t out##_l = vaddq_s32(a##_l, b##_l); \
    int32x4_t out##_h = vaddq_s32(a##_h, b##_h)

    // wide sub
#define dct_wsub(out, a, b) \
    int32x4_t out##_l = vsubq_s32(a##_l, b##_l); \
    int32x4_t out##_h = vsubq_s32(a##_h, b##_h)

    // butterfly a/b, then shift using "shiftp" by "s" and pack
#define dct_bfly32o(out0,out1, a,b,shiftp,s) \
    { \
        dct_wadd(sum, a, b); \
        dct_wsub(dif, a, b); \
        out0 = vcombine_s16(shiftp(sum_l, s), shiftp(sum_h, s)); \
        out1 = vcombine_s16(shiftp(dif_l, s), shiftp(dif_h, s)); \
    }

#define dct_pass(shiftp, shift) \
    { \
        /* even part */ \
        int16x8_t sum26 = vaddq_s16(row2, row6); \
        dct_long_mul(p1e, sum26, rot0_0); \
        dct_long_mac(t2e, p1e, row6, rot0_1); \
        dct_long_mac(t3e, p1e, row2, rot0_2); \
        int16x8_t sum04 = vaddq_s16(row0, row4); \
        int16x8_t dif04 = vsubq_s16(row0, row4); \
        dct_widen(t0e, sum04); \
        dct_widen(t1e, dif04); \
        dct_wadd(x0, t0e, t3e); \
        dct_wsub(x3, t0e, t3e); \
        dct_wadd(x1, t1e, t2e); \
        dct_wsub(x2, t1e, t2e); \
        /* odd part */ \
        int16x8_t sum15 = vaddq_s16(row1, row5); \
        int16x8_t sum17 = vaddq_s16(row1, row7); \
        int16x8_t sum35 = vaddq_s16(row3, row5); \
        int16x8_t sum37 = vaddq_s16(row3, row7); \
        int16x8_t sumodd = vaddq_s16(sum17, sum35); \
        dct_long_mul(p5o, sumodd, rot1_0); \
        dct_long_mac(p1o, p5o, sum17, rot1_1); \
        dct_long_mac(p2o, p5o, sum35, rot1_2); \
        dct_long_mul(p3o, sum37, rot2_0); \
        dct_long_mul(p4o, sum15, rot2_1); \
        dct_wadd(sump13o, p1o, p3o); \
    }

```

```

dct_wadd(sump24o, p2o, p4o); \
dct_wadd(sump23o, p2o, p3o); \
dct_wadd(sump14o, p1o, p4o); \
dct_long_mac(x4, sump13o, row7, rot3_0); \
dct_long_mac(x5, sump24o, row5, rot3_1); \
dct_long_mac(x6, sump23o, row3, rot3_2); \
dct_long_mac(x7, sump14o, row1, rot3_3); \
dct_bfly32o(row0, row7, x0, x7, shiftop, shift); \
dct_bfly32o(row1, row6, x1, x6, shiftop, shift); \
dct_bfly32o(row2, row5, x2, x5, shiftop, shift); \
dct_bfly32o(row3, row4, x3, x4, shiftop, shift); \
}

// load
row0 = vld1q_s16(data + 0 * 8);
row1 = vld1q_s16(data + 1 * 8);
row2 = vld1q_s16(data + 2 * 8);
row3 = vld1q_s16(data + 3 * 8);
row4 = vld1q_s16(data + 4 * 8);
row5 = vld1q_s16(data + 5 * 8);
row6 = vld1q_s16(data + 6 * 8);
row7 = vld1q_s16(data + 7 * 8);

// add DC bias
row0 = vaddq_s16(row0, vsetq_lane_s16(1024, vdupq_n_s16(0), 0));

// column pass
dct_pass(vrshrn_n_s32, 10);

// 16bit 8x8 transpose
{
    // these three map to a single VTRN.16, VTRN.32, and VSWP, respectively.
    // whether compilers actually get this is another story, sadly.
#define dct_trn16(x, y) { int16x8x2_t t = vtrnq_s16(x, y); x = t.val[0]; y = t.val[1]; }
#define dct_trn32(x, y) { int32x4x2_t t = vtrnq_s32(vreinterpretq_s32_s16(x), vreinterpretq_s32_s16(y)); x = vreinterpretq_s16_s32(t.val[0]); y = vreinterpretq_s16_s32(t.val[1]); }
#define dct_trn64(x, y) { int16x8_t x0 = x; int16x8_t y0 = y; x = vcombine_s16(vget_low_s16(x0), vget_low_s16(y0)); y = vcombine_s16(vget_high_s16(x0), vget_high_s16(y0)); }

    // pass 1
    dct_trn16(row0, row1); // a0b0a2b2a4b4a6b6
    dct_trn16(row2, row3);
    dct_trn16(row4, row5);
    dct_trn16(row6, row7);

    // pass 2
    dct_trn32(row0, row2); // a0b0c0d0a4b4c4d4
    dct_trn32(row1, row3);
    dct_trn32(row4, row6);
    dct_trn32(row5, row7);

    // pass 3
    dct_trn64(row0, row4); // a0b0c0d0e0f0g0h0
    dct_trn64(row1, row5);
    dct_trn64(row2, row6);
    dct_trn64(row3, row7);

#undef dct_trn16
#undef dct_trn32
#undef dct_trn64
}

// row pass
// vrshrn_n_s32 only supports shifts up to 16, we need
// 17. so do a non-rounding shift of 16 first then follow

```

```

// up with a rounding shift by 1.
dct_pass(vshrn_n_s32, 16);

{
    // pack and round
    uint8x8_t p0 = vqshrshrun_n_s16(row0, 1);
    uint8x8_t p1 = vqshrshrun_n_s16(row1, 1);
    uint8x8_t p2 = vqshrshrun_n_s16(row2, 1);
    uint8x8_t p3 = vqshrshrun_n_s16(row3, 1);
    uint8x8_t p4 = vqshrshrun_n_s16(row4, 1);
    uint8x8_t p5 = vqshrshrun_n_s16(row5, 1);
    uint8x8_t p6 = vqshrshrun_n_s16(row6, 1);
    uint8x8_t p7 = vqshrshrun_n_s16(row7, 1);

    // again, these can translate into one instruction, but often don't.
#define dct_trn8_8(x, y) { uint8x8x2_t t = vtrn_u8(x, y); x = t.val[0]; y = t.val[1];
}
#define dct_trn8_16(x, y) { uint16x4x2_t t = vtrn_u16(vreinterpret_u16_u8(x), vreinter
pret_u16_u8(y)); x = vreinterpret_u8_u16(t.val[0]); y = vreinterpret_u8_u16(t.val[1]);
}
#define dct_trn8_32(x, y) { uint32x2x2_t t = vtrn_u32(vreinterpret_u32_u8(x), vreinter
pret_u32_u8(y)); x = vreinterpret_u8_u32(t.val[0]); y = vreinterpret_u8_u32(t.val[1]);
}

    // sadly can't use interleaved stores here since we only write
    // 8 bytes to each scan line!

    // 8x8 8-bit transpose pass 1
    dct_trn8_8(p0, p1);
    dct_trn8_8(p2, p3);
    dct_trn8_8(p4, p5);
    dct_trn8_8(p6, p7);

    // pass 2
    dct_trn8_16(p0, p2);
    dct_trn8_16(p1, p3);
    dct_trn8_16(p4, p6);
    dct_trn8_16(p5, p7);

    // pass 3
    dct_trn8_32(p0, p4);
    dct_trn8_32(p1, p5);
    dct_trn8_32(p2, p6);
    dct_trn8_32(p3, p7);

    // store
    vst1_u8(out, p0); out += out_stride;
    vst1_u8(out, p1); out += out_stride;
    vst1_u8(out, p2); out += out_stride;
    vst1_u8(out, p3); out += out_stride;
    vst1_u8(out, p4); out += out_stride;
    vst1_u8(out, p5); out += out_stride;
    vst1_u8(out, p6); out += out_stride;
    vst1_u8(out, p7);

#undef dct_trn8_8
#undef dct_trn8_16
#undef dct_trn8_32
}

#undef dct_long_mul
#undef dct_long_mac
#undef dct_widen
#undef dct_wadd
#undef dct_wsub
#undef dct_bfly32o
#undef dct_pass
}

```

```

#endif // STBI_NEON

#define STBI__MARKER_none 0xff
// if there's a pending marker from the entropy stream, return that
// otherwise, fetch from the stream and get a marker. if there's no
// marker, return 0xff, which is never a valid marker value
static stbi_uc stbi__get_marker(stbi__jpeg *j)
{
    stbi_uc x;
    if (j->marker != STBI__MARKER_none) { x = j->marker; j->marker = STBI__MARKER_
none; return x; }
    x = stbi__get8(j->s);
    if (x != 0xff) return STBI__MARKER_none;
    while (x == 0xff)
        x = stbi__get8(j->s); // consume repeated 0xff fill bytes
    return x;
}

// in each scan, we'll have scan_n components, and the order
// of the components is specified by order[]
#define STBI__RESTART(x) ((x) >= 0xd0 && (x) <= 0xd7)

// after a restart interval, stbi__jpeg_reset the entropy decoder and
// the dc prediction
static void stbi__jpeg_reset(stbi__jpeg *j)
{
    j->code_bits = 0;
    j->code_buffer = 0;
    j->nomore = 0;
    j->img_comp[0].dc_pred = j->img_comp[1].dc_pred = j->img_comp[2].dc_pred = j->
img_comp[3].dc_pred = 0;
    j->marker = STBI__MARKER_none;
    j->todo = j->restart_interval ? j->restart_interval : 0x7fffffff;
    j->eob_run = 0;
    // no more than 1<<31 MCUs if no restart_interval? that's plenty safe,
    // since we don't even allow 1<<30 pixels
}

static int stbi__parse_entropy_coded_data(stbi__jpeg *z)
{
    stbi__jpeg_reset(z);
    if (!z->progressive) {
        if (z->scan_n == 1) {
            int i, j;
            STBI_SIMD_ALIGN(short, data[64]);
            int n = z->order[0];
            // non-interleaved data, we just need to process one block at
a time,
            // in trivial scanline order
            // number of blocks to do just depends on how many actual "pix
els" this
            // component has, independent of interleaved MCU blocking and
such
            int w = (z->img_comp[n].x + 7) >> 3;
            int h = (z->img_comp[n].y + 7) >> 3;
            for (j = 0; j < h; ++j) {
                for (i = 0; i < w; ++i) {
                    int ha = z->img_comp[n].ha;
                    if (!stbi__jpeg_decode_block(z, data, z->huff_
dc + z->img_comp[n].hd, z->huff_ac + ha, z->fast_ac[ha], n, z->dequant[z->img_comp[n].
tq])) return 0;
                    z->idct_block_kernel(z->img_comp[n].data + z->
img_comp[n].w2*j * 8 + i * 8, z->img_comp[n].w2, data);
                    // every data block is an MCU, so countdown th
e restart interval
                    if (--z->todo <= 0) {
                        if (z->code_bits < 24) stbi__grow_buff
er_unsafe(z);
                        // if it's NOT a restart, then just ba

```

```

il, so we get corrupt data
1;
// rather than no data
if (!STBI__RESTART(z->marker)) return
stbi__jpeg_reset(z);
}
}
return 1;
}
else { // interleaved
int i, j, k, x, y;
STBI_SIMD_ALIGN(short, data[64]);
for (j = 0; j < z->img_mcu_y; ++j) {
for (i = 0; i < z->img_mcu_x; ++i) {
// scan an interleaved mcu... process scan_n c
omponents in order
for (k = 0; k < z->scan_n; ++k) {
int n = z->order[k];
// scan out an mcu's worth of this com
ponent; that's just determined
// by the basic H and V specified for
the component
for (y = 0; y < z->img_comp[n].v; ++y)
for (x = 0; x < z->img_comp[n].h; ++x) {
int x2 = (i*z->img_com
int y2 = (j*z->img_com
int ha = z->img_comp[n]
if (!stbi__jpeg_decode
_block(z, data, z->huff_dc + z->img_comp[n].hd, z->huff_ac + ha, z->fast_ac[ha], n, z-
>dequant[z->img_comp[n].tq])) return 0;
z->idct_block_kernel(z
->img_comp[n].data + z->img_comp[n].w2*y2 + x2, z->img_comp[n].w2, data);
}
}
}
// after all interleaved components, that's an
interleaved MCU,
// so now count down the restart interval
er_unsafe(z);
if (--z->todo <= 0) {
if (z->code_bits < 24) stbi__grow_buff
if (!STBI__RESTART(z->marker)) return
stbi__jpeg_reset(z);
}
}
return 1;
}
}
else {
if (z->scan_n == 1) {
int i, j;
int n = z->order[0];
// non-interleaved data, we just need to process one block at
a time,
// in trivial scanline order
els" this // number of blocks to do just depends on how many actual "pix
such // component has, independent of interleaved MCU blocking and
int w = (z->img_comp[n].x + 7) >> 3;
int h = (z->img_comp[n].y + 7) >> 3;

```

```

        for (j = 0; j < h; ++j) {
            for (i = 0; i < w; ++i) {
                short *data = z->img_comp[n].coeff + 64 * (i +
j * z->img_comp[n].coeff_w);
                if (z->spec_start == 0) {
                    if (!stbi__jpeg_decode_block_prog_dc(z
, data, &z->huff_dc[z->img_comp[n].hd], n))
                        return 0;
                    }
                else {
                    int ha = z->img_comp[n].ha;
                    if (!stbi__jpeg_decode_block_prog_ac(z
, data, &z->huff_ac[ha], z->fast_ac[ha]))
                        return 0;
                    }
                // every data block is an MCU, so countdown th
e restart interval
                if (--z->todo <= 0) {
                    if (z->code_bits < 24) stbi__grow_buff
er_unsafe(z);
                    if (!STBI__RESTART(z->marker)) return
1;
                    stbi__jpeg_reset(z);
                }
            }
        }
        return 1;
    }
    else { // interleaved
        int i, j, k, x, y;
        for (j = 0; j < z->img_mcu_y; ++j) {
            for (i = 0; i < z->img_mcu_x; ++i) {
                // scan an interleaved mcu... process scan_n c
omponents in order
                for (k = 0; k < z->scan_n; ++k) {
                    int n = z->order[k];
                    // scan out an mcu's worth of this com
ponent; that's just determined
                    // by the basic H and V specified for
                    the component
                    for (y = 0; y < z->img_comp[n].v; ++y)
                    {
                        for (x = 0; x < z->img_comp[n]
.h; ++x) {
                            int x2 = (i*z->img_com
p[n].h + x);
                            int y2 = (j*z->img_com
p[n].v + y);
                            short *data = z->img_c
omp[n].coeff + 64 * (x2 + y2 * z->img_comp[n].coeff_w);
                            if (!stbi__jpeg_decode
_block_prog_dc(z, data, &z->huff_dc[z->img_comp[n].hd], n))
                                return 0;
                        }
                    }
                }
                // after all interleaved components, that's an
interleaved MCU,
                // so now count down the restart interval
                if (--z->todo <= 0) {
                    if (z->code_bits < 24) stbi__grow_buff
er_unsafe(z);
                    if (!STBI__RESTART(z->marker)) return
1;
                    stbi__jpeg_reset(z);
                }
            }
        }
        return 1;
    }
}
return 1;

```

```

    }
}

static void stbi__jpeg_dequantize(short *data, stbi__uint16 *dequant)
{
    int i;
    for (i = 0; i < 64; ++i)
        data[i] *= dequant[i];
}

static void stbi__jpeg_finish(stbi__jpeg *z)
{
    if (z->progressive) {
        // dequantize and idct the data
        int i, j, n;
        for (n = 0; n < z->s->img_n; ++n) {
            int w = (z->img_comp[n].x + 7) >> 3;
            int h = (z->img_comp[n].y + 7) >> 3;
            for (j = 0; j < h; ++j) {
                for (i = 0; i < w; ++i) {
                    short *data = z->img_comp[n].coeff + 64 * (i +
j * z->img_comp[n].coeff_w);
                    stbi__jpeg_dequantize(data, z->dequant[z->img_
comp[n].tq]);
                    z->idct_block_kernel(z->img_comp[n].data + z->
img_comp[n].w2*j * 8 + i * 8, z->img_comp[n].w2, data);
                }
            }
        }
    }
}

static int stbi__process_marker(stbi__jpeg *z, int m)
{
    int L;
    switch (m) {
        case STBI__MARKER_none: // no marker found
            return stbi__err("expected marker", "Corrupt JPEG");

        case 0xDD: // DRI - specify restart interval
            if (stbi__get16be(z->s) != 4) return stbi__err("bad DRI len", "Corrupt
JPEG");
            z->restart_interval = stbi__get16be(z->s);
            return 1;

        case 0xDB: // DQT - define quantization table
            L = stbi__get16be(z->s) - 2;
            while (L > 0) {
                int q = stbi__get8(z->s);
                int p = q >> 4, sixteen = (p != 0);
                int t = q & 15, i;
                if (p != 0 && p != 1) return stbi__err("bad DQT type", "Corrup
t JPEG");
                if (t > 3) return stbi__err("bad DQT table", "Corrupt JPEG");

                for (i = 0; i < 64; ++i)
                    z->dequant[t][stbi__jpeg_dezigzag[i]] = (stbi__uint16)
(sixteen ? stbi__get16be(z->s) : stbi__get8(z->s));
                L -= (sixteen ? 129 : 65);
            }
            return L == 0;

        case 0xC4: // DHT - define huffman table
            L = stbi__get16be(z->s) - 2;
            while (L > 0) {
                stbi_uc *v;
                int sizes[16], i, n = 0;
                int q = stbi__get8(z->s);

```



```

int tc = q >> 4;
int th = q & 15;
if (tc > 1 || th > 3) return stbi__err("bad DHT header", "Corr
upt JPEG");
for (i = 0; i < 16; ++i) {
    sizes[i] = stbi__get8(z->s);
    n += sizes[i];
}
L -= 17;
if (tc == 0) {
    if (!stbi__build_huffman(z->huff_dc + th, sizes)) retu
rn 0;
    v = z->huff_dc[th].values;
}
else {
    if (!stbi__build_huffman(z->huff_ac + th, sizes)) retu
rn 0;
    v = z->huff_ac[th].values;
}
for (i = 0; i < n; ++i)
    v[i] = stbi__get8(z->s);
if (tc != 0)
    stbi__build_fast_ac(z->fast_ac[th], z->huff_ac + th);
L -= n;
}
return L == 0;
}

// check for comment block or APP blocks
if ((m >= 0xE0 && m <= 0xEF) || m == 0xFE) {
    L = stbi__get16be(z->s);
    if (L < 2) {
        if (m == 0xFE)
            return stbi__err("bad COM len", "Corrupt JPEG");
        else
            return stbi__err("bad APP len", "Corrupt JPEG");
    }
    L -= 2;

    if (m == 0xE0 && L >= 5) { // JFIF APP0 segment
        static const unsigned char tag[5] = { 'J','F','I','F','\0' };
        int ok = 1;
        int i;
        for (i = 0; i < 5; ++i)
            if (stbi__get8(z->s) != tag[i])
                ok = 0;
        L -= 5;
        if (ok)
            z->jfif = 1;
    }
    else if (m == 0xEE && L >= 12) { // Adobe APP14 segment
        static const unsigned char tag[6] = { 'A','d','o','b','e','\0' };
        int ok = 1;
        int i;
        for (i = 0; i < 6; ++i)
            if (stbi__get8(z->s) != tag[i])
                ok = 0;
        L -= 6;
        if (ok) {
            stbi__get8(z->s); // version
            stbi__get16be(z->s); // flags0
            stbi__get16be(z->s); // flags1
            z->app14_color_transform = stbi__get8(z->s); // color
            transform
            L -= 6;
        }
    }
}

```

```

        stbi__skip(z->s, L);
        return 1;
    }

    return stbi__err("unknown marker", "Corrupt JPEG");
}

// after we see SOS
static int stbi__process_scan_header(stbi__jpeg *z)
{
    int i;
    int Ls = stbi__get16be(z->s);
    z->scan_n = stbi__get8(z->s);
    if (z->scan_n < 1 || z->scan_n > 4 || z->scan_n > (int)z->s->img_n) return stbi__err("bad SOS component count", "Corrupt JPEG");
    if (Ls != 6 + 2 * z->scan_n) return stbi__err("bad SOS len", "Corrupt JPEG");
    for (i = 0; i < z->scan_n; ++i) {
        int id = stbi__get8(z->s), which;
        int q = stbi__get8(z->s);
        for (which = 0; which < z->s->img_n; ++which)
            if (z->img_comp[which].id == id)
                break;
        if (which == z->s->img_n) return 0; // no match
        z->img_comp[which].hd = q >> 4;    if (z->img_comp[which].hd > 3) return stbi__err("bad DC huff", "Corrupt JPEG");
        z->img_comp[which].ha = q & 15;    if (z->img_comp[which].ha > 3) return stbi__err("bad AC huff", "Corrupt JPEG");
        z->order[i] = which;
    }

    {
        int aa;
        z->spec_start = stbi__get8(z->s);
        z->spec_end = stbi__get8(z->s); // should be 63, but might be 0
        aa = stbi__get8(z->s);
        z->succ_high = (aa >> 4);
        z->succ_low = (aa & 15);
        if (z->progressive) {
            if (z->spec_start > 63 || z->spec_end > 63 || z->spec_start > z->spec_end || z->succ_high > 13 || z->succ_low > 13)
                return stbi__err("bad SOS", "Corrupt JPEG");
        }
        else {
            if (z->spec_start != 0) return stbi__err("bad SOS", "Corrupt JPEG");
            if (z->succ_high != 0 || z->succ_low != 0) return stbi__err("bad SOS", "Corrupt JPEG");
            z->spec_end = 63;
        }
    }

    return 1;
}

static int stbi__free_jpeg_components(stbi__jpeg *z, int ncomp, int why)
{
    int i;
    for (i = 0; i < ncomp; ++i) {
        if (z->img_comp[i].raw_data) {
            STBI_FREE(z->img_comp[i].raw_data);
            z->img_comp[i].raw_data = NULL;
            z->img_comp[i].data = NULL;
        }
        if (z->img_comp[i].raw_coeff) {
            STBI_FREE(z->img_comp[i].raw_coeff);
            z->img_comp[i].raw_coeff = 0;
            z->img_comp[i].coeff = 0;
        }
        if (z->img_comp[i].linebuf) {

```

```

        STBI_FREE(z->img_comp[i].linebuf);
        z->img_comp[i].linebuf = NULL;
    }
    return why;
}

static int stbi__process_frame_header(stbi__jpeg *z, int scan)
{
    stbi__context *s = z->s;
    int Lf, p, i, q, h_max = 1, v_max = 1, c;
    Lf = stbi__get16be(s);    if (Lf < 11) return stbi__err("bad SOF len", "C
orrupt JPEG"); // JPEG
    p = stbi__get8(s);    if (p != 8) return stbi__err("only 8-bit", "JPEG
format not supported: 8-bit only"); // JPEG baseline
    s->img_y = stbi__get16be(s);    if (s->img_y == 0) return stbi__err("no header
height", "JPEG format not supported: delayed height"); // Legal, but we don't handle i
t--but neither does IJG
    s->img_x = stbi__get16be(s);    if (s->img_x == 0) return stbi__err("0 width",
"Corrupt JPEG"); // JPEG requires
    c = stbi__get8(s);
    if (c != 3 && c != 1 && c != 4) return stbi__err("bad component count", "Corru
pt JPEG");
    s->img_n = c;
    for (i = 0; i < c; ++i) {
        z->img_comp[i].data = NULL;
        z->img_comp[i].linebuf = NULL;
    }

    if (Lf != 8 + 3 * s->img_n) return stbi__err("bad SOF len", "Corrupt JPEG");

    z->rgb = 0;
    for (i = 0; i < s->img_n; ++i) {
        static unsigned char rgb[3] = { 'R', 'G', 'B' };
        z->img_comp[i].id = stbi__get8(s);
        if (s->img_n == 3 && z->img_comp[i].id == rgb[i])
            ++z->rgb;
        q = stbi__get8(s);
        z->img_comp[i].h = (q >> 4);    if (!z->img_comp[i].h || z->img_comp[i].
h > 4) return stbi__err("bad H", "Corrupt JPEG");
        z->img_comp[i].v = q & 15;    if (!z->img_comp[i].v || z->img_comp[i].
v > 4) return stbi__err("bad V", "Corrupt JPEG");
        z->img_comp[i].tq = stbi__get8(s);    if (z->img_comp[i].tq > 3) return
stbi__err("bad TQ", "Corrupt JPEG");
    }

    if (scan != STBI__SCAN_load) return 1;

    if (!stbi__mad3sizes_valid(s->img_x, s->img_y, s->img_n, 0)) return stbi__err(
"too large", "Image too large to decode");

    for (i = 0; i < s->img_n; ++i) {
        if (z->img_comp[i].h > h_max) h_max = z->img_comp[i].h;
        if (z->img_comp[i].v > v_max) v_max = z->img_comp[i].v;
    }

    // compute interleaved mcu info
    z->img_h_max = h_max;
    z->img_v_max = v_max;
    z->img_mcu_w = h_max * 8;
    z->img_mcu_h = v_max * 8;
    // these sizes can't be more than 17 bits
    z->img_mcu_x = (s->img_x + z->img_mcu_w - 1) / z->img_mcu_w;
    z->img_mcu_y = (s->img_y + z->img_mcu_h - 1) / z->img_mcu_h;

    for (i = 0; i < s->img_n; ++i) {
        // number of effective pixels (e.g. for non-interleaved MCU)
        z->img_comp[i].x = (s->img_x * z->img_comp[i].h + h_max - 1) / h_max;
        z->img_comp[i].y = (s->img_y * z->img_comp[i].v + v_max - 1) / v_max;
    }
}

```

```

// to simplify generation, we'll allocate enough memory to decode
// the bogus oversized data from using interleaved MCUs and their
// big blocks (e.g. a 16x16 iMCU on an image of width 33); we won't
// discard the extra data until colorspace conversion
//
// img_mcu_x, img_mcu_y: <=17 bits; comp[i].h and .v are <=4 (checked
earlier)
// so these mults can't overflow with 32-bit ints (which we require)
z->img_comp[i].w2 = z->img_mcu_x * z->img_comp[i].h * 8;
z->img_comp[i].h2 = z->img_mcu_y * z->img_comp[i].v * 8;
z->img_comp[i].coeff = 0;
z->img_comp[i].raw_coeff = 0;
z->img_comp[i].linebuf = NULL;
z->img_comp[i].raw_data = stbi__malloc_mad2(z->img_comp[i].w2, z->img_
comp[i].h2, 15);
    if (z->img_comp[i].raw_data == NULL)
        return stbi__free_jpeg_components(z, i + 1, stbi__err("outofme
m", "Out of memory"));
    // align blocks for idct using mmx/sse
z->img_comp[i].data = (stbi_uc*)((size_t)z->img_comp[i].raw_data + 15
) & ~15);
    if (z->progressive) {
        // w2, h2 are multiples of 8 (see above)
z->img_comp[i].coeff_w = z->img_comp[i].w2 / 8;
z->img_comp[i].coeff_h = z->img_comp[i].h2 / 8;
z->img_comp[i].raw_coeff = stbi__malloc_mad3(z->img_comp[i].w2
, z->img_comp[i].h2, sizeof(short), 15);
        if (z->img_comp[i].raw_coeff == NULL)
            return stbi__free_jpeg_components(z, i + 1, stbi__err(
"outofmem", "Out of memory"));
z->img_comp[i].coeff = (short*)((size_t)z->img_comp[i].raw_co
eff + 15) & ~15);
    }
    }
    return 1;
}

// use comparisons since in some cases we handle more than one case (e.g. SOF)
#define stbi__DNL(x)      ((x) == 0xdc)
#define stbi__SOI(x)      ((x) == 0xd8)
#define stbi__EOI(x)      ((x) == 0xd9)
#define stbi__SOF(x)      ((x) == 0xc0 || (x) == 0xc1 || (x) == 0xc2)
#define stbi__SOS(x)      ((x) == 0xda)

#define stbi__SOF_progressive(x)  ((x) == 0xc2)

static int stbi__decode_jpeg_header(stbi__jpeg *z, int scan)
{
    int m;
z->jfif = 0;
z->app14_color_transform = -1; // valid values are 0,1,2
z->marker = STBI__MARKER_none; // initialize cached marker to empty
m = stbi__get_marker(z);
if (!stbi__SOI(m)) return stbi__err("no SOI", "Corrupt JPEG");
if (scan == STBI__SCAN_type) return 1;
m = stbi__get_marker(z);
while (!stbi__SOF(m)) {
    if (!stbi__process_marker(z, m)) return 0;
m = stbi__get_marker(z);
while (m == STBI__MARKER_none) {
    // some files have extra padding after their blocks, so ok, we
'll scan
        if (stbi__at_eof(z->s)) return stbi__err("no SOF", "Corrupt JP
EG");
        m = stbi__get_marker(z);
    }
}
z->progressive = stbi__SOF_progressive(m);

```

```

        if (!stbi__process_frame_header(z, scan)) return 0;
        return 1;
    }

    // decode image to YCbCr format
    static int stbi__decode_jpeg_image(stbi__jpeg *j)
    {
        int m;
        for (m = 0; m < 4; m++) {
            j->img_comp[m].raw_data = NULL;
            j->img_comp[m].raw_coeff = NULL;
        }
        j->restart_interval = 0;
        if (!stbi__decode_jpeg_header(j, STBI__SCAN_load)) return 0;
        m = stbi__get_marker(j);
        while (!stbi__EOI(m)) {
            if (stbi__SOS(m)) {
                if (!stbi__process_scan_header(j)) return 0;
                if (!stbi__parse_entropy_coded_data(j)) return 0;
                if (j->marker == STBI__MARKER_none) {
                    // handle 0s at the end of image data from IP Kamera 9
                    while (!stbi__at_eof(j->s)) {
                        int x = stbi__get8(j->s);
                        if (x == 255) {
                            j->marker = stbi__get8(j->s);
                            break;
                        }
                    }
                    // if we reach eof without hitting a marker, stbi__get
                    _marker() below will fail and we'll eventually return 0
                }
            }
            else if (stbi__DNL(m)) {
                int Ld = stbi__get16be(j->s);
                stbi__uint32 NL = stbi__get16be(j->s);
                if (Ld != 4) stbi__err("bad DNL len", "Corrupt JPEG");
                if (NL != j->s->img_y) stbi__err("bad DNL height", "Corrupt JP
EG");
            }
            else {
                if (!stbi__process_marker(j, m)) return 0;
            }
            m = stbi__get_marker(j);
        }
        if (j->progressive)
            stbi__jpeg_finish(j);
        return 1;
    }

    // static jfif-centered resampling (across block boundaries)
    typedef stbi_uc *(*resample_row_func)(stbi_uc *out, stbi_uc *in0, stbi_uc *in1,
        int w, int hs);

    #define stbi__div4(x) ((stbi_uc) ((x) >> 2))

    static stbi_uc *resample_row_1(stbi_uc *out, stbi_uc *in_near, stbi_uc *in_far, int w,
        int hs)
    {
        STBI_NOTUSED(out);
        STBI_NOTUSED(in_far);
        STBI_NOTUSED(w);
        STBI_NOTUSED(hs);
        return in_near;
    }

    static stbi_uc* stbi__resample_row_v_2(stbi_uc *out, stbi_uc *in_near, stbi_uc *in_far
        , int w, int hs)

```

```

{
    // need to generate two samples vertically for every one in input
    int i;
    STBI_NOTUSED(hs);
    for (i = 0; i < w; ++i)
        out[i] = stbi__div4(3 * in_near[i] + in_far[i] + 2);
    return out;
}

static stbi_uc* stbi__resample_row_h_2(stbi_uc *out, stbi_uc *in_near, stbi_uc *in_fa
r, int w, int hs)
{
    // need to generate two samples horizontally for every one in input
    int i;
    stbi_uc *input = in_near;

    if (w == 1) {
        // if only one sample, can't do any interpolation
        out[0] = out[1] = input[0];
        return out;
    }

    out[0] = input[0];
    out[1] = stbi__div4(input[0] * 3 + input[1] + 2);
    for (i = 1; i < w - 1; ++i) {
        int n = 3 * input[i] + 2;
        out[i * 2 + 0] = stbi__div4(n + input[i - 1]);
        out[i * 2 + 1] = stbi__div4(n + input[i + 1]);
    }
    out[i * 2 + 0] = stbi__div4(input[w - 2] * 3 + input[w - 1] + 2);
    out[i * 2 + 1] = input[w - 1];

    STBI_NOTUSED(in_far);
    STBI_NOTUSED(hs);

    return out;
}

#define stbi__div16(x) ((stbi_uc) ((x) >> 4))

static stbi_uc *stbi__resample_row_hv_2(stbi_uc *out, stbi_uc *in_near, stbi_uc *in_fa
r, int w, int hs)
{
    // need to generate 2x2 samples for every one in input
    int i, t0, t1;
    if (w == 1) {
        out[0] = out[1] = stbi__div4(3 * in_near[0] + in_far[0] + 2);
        return out;
    }

    t1 = 3 * in_near[0] + in_far[0];
    out[0] = stbi__div4(t1 + 2);
    for (i = 1; i < w; ++i) {
        t0 = t1;
        t1 = 3 * in_near[i] + in_far[i];
        out[i * 2 - 1] = stbi__div16(3 * t0 + t1 + 8);
        out[i * 2] = stbi__div16(3 * t1 + t0 + 8);
    }
    out[w * 2 - 1] = stbi__div4(t1 + 2);

    STBI_NOTUSED(hs);

    return out;
}

#if defined(STBI_SSE2) || defined(STBI_NEON)
static stbi_uc *stbi__resample_row_hv_2_simd(stbi_uc *out, stbi_uc *in_near, stbi_uc *
in_far, int w, int hs)
{

```

```

// need to generate 2x2 samples for every one in input
int i = 0, t0, t1;

if (w == 1) {
    out[0] = out[1] = stbi__div4(3 * in_near[0] + in_far[0] + 2);
    return out;
}

t1 = 3 * in_near[0] + in_far[0];
// process groups of 8 pixels for as long as we can.
// note we can't handle the last pixel in a row in this loop
// because we need to handle the filter boundary conditions.
for (; i < ((w - 1) & ~7); i += 8) {
#ifdef STBI_SSE2
    // load and perform the vertical filtering pass
    // this uses 3*x + y = 4*x + (y - x)
    __m128i zero = _mm_setzero_si128();
    __m128i farb = _mm_loadl_epi64((__m128i *) (in_far + i));
    __m128i nearb = _mm_loadl_epi64((__m128i *) (in_near + i));
    __m128i farw = _mm_unpacklo_epi8(farb, zero);
    __m128i nearw = _mm_unpacklo_epi8(nearb, zero);
    __m128i diff = _mm_sub_epi16(farw, nearw);
    __m128i nears = _mm_slli_epi16(nearw, 2);
    __m128i curr = _mm_add_epi16(nears, diff); // current row

    // horizontal filter works the same based on shifted vers of current
    // row. "prev" is current row shifted right by 1 pixel; we need to
    // insert the previous pixel value (from t1).
    // "next" is current row shifted left by 1 pixel, with first pixel
    // of next block of 8 pixels added in.
    __m128i prv0 = _mm_slli_si128(curr, 2);
    __m128i nxt0 = _mm_srli_si128(curr, 2);
    __m128i prev = _mm_insert_epi16(prv0, t1, 0);
    __m128i next = _mm_insert_epi16(nxt0, 3 * in_near[i + 8] + in_far[i +
8], 7);

    // horizontal filter, polyphase implementation since it's convenient:
    // even pixels = 3*cur + prev = cur*4 + (prev - cur)
    // odd  pixels = 3*cur + next = cur*4 + (next - cur)
    // note the shared term.
    __m128i bias = _mm_set1_epi16(8);
    __m128i curs = _mm_slli_epi16(curr, 2);
    __m128i prvd = _mm_sub_epi16(prev, curs);
    __m128i nxtd = _mm_sub_epi16(next, curs);
    __m128i curb = _mm_add_epi16(curs, bias);
    __m128i even = _mm_add_epi16(prvd, curb);
    __m128i odd = _mm_add_epi16(nxtd, curb);

    // interleave even and odd pixels, then undo scaling.
    __m128i int0 = _mm_unpacklo_epi16(even, odd);
    __m128i int1 = _mm_unpackhi_epi16(even, odd);
    __m128i de0 = _mm_srli_epi16(int0, 4);
    __m128i del = _mm_srli_epi16(int1, 4);

    // pack and write output
    __m128i outv = _mm_packus_epi16(de0, del);
    _mm_storeu_si128((__m128i *) (out + i * 2), outv);
#elif defined(STBI_NEON)
    // load and perform the vertical filtering pass
    // this uses 3*x + y = 4*x + (y - x)
    uint8x8_t farb = vld1_u8(in_far + i);
    uint8x8_t nearb = vld1_u8(in_near + i);
    int16x8_t diff = vreinterpretq_s16_u16(vsubl_u8(farb, nearb));
    int16x8_t nears = vreinterpretq_s16_u16(vshll_n_u8(nearb, 2));

```

```

        int16x8_t curr = vaddq_s16(nears, diff); // current row

        // horizontal filter works the same based on shifted vers of current
        // row. "prev" is current row shifted right by 1 pixel; we need to
        // insert the previous pixel value (from t1).
        // "next" is current row shifted left by 1 pixel, with first pixel
        // of next block of 8 pixels added in.
        int16x8_t prv0 = vextq_s16(curr, curr, 7);
        int16x8_t nxt0 = vextq_s16(curr, curr, 1);
        int16x8_t prev = vsetq_lane_s16(t1, prv0, 0);
        int16x8_t next = vsetq_lane_s16(3 * in_near[i + 8] + in_far[i + 8], nx
t0, 7);

        // horizontal filter, polyphase implementation since it's convenient:
        // even pixels = 3*cur + prev = cur*4 + (prev - cur)
        // odd  pixels = 3*cur + next = cur*4 + (next - cur)
        // note the shared term.
        int16x8_t curs = vshlq_n_s16(curr, 2);
        int16x8_t prvd = vsubq_s16(prev, curr);
        int16x8_t nxd = vsubq_s16(next, curr);
        int16x8_t even = vaddq_s16(curs, prvd);
        int16x8_t odd = vaddq_s16(curs, nxd);

        // undo scaling and round, then store with even/odd phases interleaved
        uint8x8x2_t o;
        o.val[0] = vqshr_n_s16(even, 4);
        o.val[1] = vqshr_n_s16(odd, 4);
        vst2_u8(out + i * 2, o);
#endif

        // "previous" value for next iter
        t1 = 3 * in_near[i + 7] + in_far[i + 7];
    }

    t0 = t1;
    t1 = 3 * in_near[i] + in_far[i];
    out[i * 2] = stbi__div16(3 * t1 + t0 + 8);

    for (++i; i < w; ++i) {
        t0 = t1;
        t1 = 3 * in_near[i] + in_far[i];
        out[i * 2 - 1] = stbi__div16(3 * t0 + t1 + 8);
        out[i * 2] = stbi__div16(3 * t1 + t0 + 8);
    }
    out[w * 2 - 1] = stbi__div4(t1 + 2);

    STBI_NOTUSED(hs);

    return out;
}
#endif

static stbi_uc *stbi__resample_row_generic(stbi_uc *out, stbi_uc *in_near, stbi_uc *in
_far, int w, int hs)
{
    // resample with nearest-neighbor
    int i, j;
    STBI_NOTUSED(in_far);
    for (i = 0; i < w; ++i)
        for (j = 0; j < hs; ++j)
            out[i*hs + j] = in_near[i];
    return out;
}

```



```

// this is a reduced-precision calculation of YCbCr-to-RGB introduced
// to make sure the code produces the same results in both SIMD and scalar
#define stbi__float2fixed(x) (((int) ((x) * 4096.0f + 0.5f)) << 8)
static void stbi__YCbCr_to_RGB_row(stbi_uc *out, const stbi_uc *y, const stbi_uc *pcb,
const stbi_uc *pcr, int count, int step)
{
    int i;
    for (i = 0; i < count; ++i) {
        int y_fixed = (y[i] << 20) + (1 << 19); // rounding
        int r, g, b;
        int cr = pcr[i] - 128;
        int cb = pcb[i] - 128;
        r = y_fixed + cr* stbi__float2fixed(1.40200f);
        g = y_fixed + (cr*-stbi__float2fixed(0.71414f)) + ((cb*-stbi__float2fi
xed(0.34414f)) & 0xffff0000);
        b = y_fixed + cb* stbi__float2fixed(1.77200f);
        r >>= 20;
        g >>= 20;
        b >>= 20;
        if ((unsigned)r > 255) { if (r < 0) r = 0; else r = 255; }
        if ((unsigned)g > 255) { if (g < 0) g = 0; else g = 255; }
        if ((unsigned)b > 255) { if (b < 0) b = 0; else b = 255; }
        out[0] = (stbi_uc)r;
        out[1] = (stbi_uc)g;
        out[2] = (stbi_uc)b;
        out[3] = 255;
        out += step;
    }
}

#if defined(STBI_SSE2) || defined(STBI_NEON)
static void stbi__YCbCr_to_RGB_simd(stbi_uc *out, stbi_uc const *y, stbi_uc const *pcb
, stbi_uc const *pcr, int count, int step)
{
    int i = 0;

#ifdef STBI_SSE2
    // step == 3 is pretty ugly on the final interleave, and i'm not convinced
    // it's useful in practice (you wouldn't use it for textures, for example).
    // so just accelerate step == 4 case.
    if (step == 4) {
        // this is a fairly straightforward implementation and not super-optim
ized.
        __m128i signflip = _mm_set1_epi8(-0x80);
        __m128i cr_const0 = _mm_set1_epi16((short)(1.40200f*4096.0f + 0.5f));
        __m128i cr_const1 = _mm_set1_epi16(-(short)(0.71414f*4096.0f + 0.5f));
        __m128i cb_const0 = _mm_set1_epi16(-(short)(0.34414f*4096.0f + 0.5f));
        __m128i cb_const1 = _mm_set1_epi16((short)(1.77200f*4096.0f + 0.5f));
        __m128i y_bias = _mm_set1_epi8((char)(unsigned char)128);
        __m128i xw = _mm_set1_epi16(255); // alpha channel

        for (; i + 7 < count; i += 8) {
            // load
            __m128i y_bytes = _mm_loadl_epi64((__m128i *) (y + i));
            __m128i cr_bytes = _mm_loadl_epi64((__m128i *) (pcr + i));
            __m128i cb_bytes = _mm_loadl_epi64((__m128i *) (pcb + i));
            __m128i cr_biased = _mm_xor_si128(cr_bytes, signflip); // -128
            __m128i cb_biased = _mm_xor_si128(cb_bytes, signflip); // -128

            // unpack to short (and left-shift cr, cb
by 8)
            __m128i yw = _mm_unpacklo_epi8(y_bias, y_bytes);
            __m128i crw = _mm_unpacklo_epi8(_mm_setzero_si128(), cr_biased
);
            __m128i cbw = _mm_unpacklo_epi8(_mm_setzero_si128(), cb_biased
);

            // color transform

```

```

    __m128i yws = _mm_srli_epi16(yw, 4);
    __m128i cr0 = _mm_mulhi_epi16(cr_const0, crw);
    __m128i cb0 = _mm_mulhi_epi16(cb_const0, cbw);
    __m128i cb1 = _mm_mulhi_epi16(cbw, cb_const1);
    __m128i cr1 = _mm_mulhi_epi16(crw, cr_const1);
    __m128i rws = _mm_add_epi16(cr0, yws);
    __m128i gwt = _mm_add_epi16(cb0, yws);
    __m128i bws = _mm_add_epi16(yws, cb1);
    __m128i gws = _mm_add_epi16(gwt, cr1);

    // descale
    __m128i rw = _mm_srai_epi16(rws, 4);
    __m128i bw = _mm_srai_epi16(bws, 4);
    __m128i gw = _mm_srai_epi16(gws, 4);

    // back to byte, set up for transpose
    __m128i brb = _mm_packus_epi16(rw, bw);
    __m128i gxb = _mm_packus_epi16(gw, xw);

    // transpose to interleave channels
    __m128i t0 = _mm_unpacklo_epi8(brb, gxb);
    __m128i t1 = _mm_unpackhi_epi8(brb, gxb);
    __m128i o0 = _mm_unpacklo_epi16(t0, t1);
    __m128i o1 = _mm_unpackhi_epi16(t0, t1);

    // store
    __mm_storeu_si128((__m128i *) (out + 0), o0);
    __mm_storeu_si128((__m128i *) (out + 16), o1);
    out += 32;
}
}
#endif

#ifdef STBI_NEON
    // in this version, step=3 support would be easy to add. but is there demand?
    if (step == 4) {
        // this is a fairly straightforward implementation and not super-optim
        ized.
        uint8x8_t signflip = vdup_n_u8(0x80);
        int16x8_t cr_const0 = vdupq_n_s16((short)(1.40200f*4096.0f + 0.5f));
        int16x8_t cr_const1 = vdupq_n_s16(-(short)(0.71414f*4096.0f + 0.5f));
        int16x8_t cb_const0 = vdupq_n_s16(-(short)(0.34414f*4096.0f + 0.5f));
        int16x8_t cb_const1 = vdupq_n_s16((short)(1.77200f*4096.0f + 0.5f));

        for (; i + 7 < count; i += 8) {
            // load
            uint8x8_t y_bytes = vld1_u8(y + i);
            uint8x8_t cr_bytes = vld1_u8(pcr + i);
            uint8x8_t cb_bytes = vld1_u8(pcb + i);
            int8x8_t cr_biased = vreinterpret_s8_u8(vsub_u8(cr_bytes, sign
flip));
            int8x8_t cb_biased = vreinterpret_s8_u8(vsub_u8(cb_bytes, sign
flip));

            // expand to s16
            int16x8_t yws = vreinterpretq_s16_u16(vshll_n_u8(y_bytes, 4));
            int16x8_t crw = vshll_n_s8(cr_biased, 7);
            int16x8_t cbw = vshll_n_s8(cb_biased, 7);

            // color transform
            int16x8_t cr0 = vqdmulhq_s16(crw, cr_const0);
            int16x8_t cb0 = vqdmulhq_s16(cbw, cb_const0);
            int16x8_t cr1 = vqdmulhq_s16(crw, cr_const1);
            int16x8_t cb1 = vqdmulhq_s16(cbw, cb_const1);
            int16x8_t rws = vaddq_s16(yws, cr0);
            int16x8_t gws = vaddq_s16(vaddq_s16(yws, cb0), cr1);
            int16x8_t bws = vaddq_s16(yws, cb1);

            // undo scaling, round, convert to byte

```

```

        uint8x8x4_t o;
        o.val[0] = vqrshrun_n_s16(rws, 4);
        o.val[1] = vqrshrun_n_s16(gws, 4);
        o.val[2] = vqrshrun_n_s16(bws, 4);
        o.val[3] = vdup_n_u8(255);

        // store, interleaving r/g/b/a
        vst4_u8(out, o);
        out += 8 * 4;
    }
}
#endif

    for (; i < count; ++i) {
        int y_fixed = (y[i] << 20) + (1 << 19); // rounding
        int r, g, b;
        int cr = pcr[i] - 128;
        int cb = pcb[i] - 128;
        r = y_fixed + cr* stbi__float2fixed(1.40200f);
        g = y_fixed + cr*-stbi__float2fixed(0.71414f) + ((cb*-stbi__float2fixed(0.34414f)) & 0xffff0000);
        b = y_fixed + cb* stbi__float2fixed(1.77200f);
        r >>= 20;
        g >>= 20;
        b >>= 20;
        if ((unsigned)r > 255) { if (r < 0) r = 0; else r = 255; }
        if ((unsigned)g > 255) { if (g < 0) g = 0; else g = 255; }
        if ((unsigned)b > 255) { if (b < 0) b = 0; else b = 255; }
        out[0] = (stbi_uc)r;
        out[1] = (stbi_uc)g;
        out[2] = (stbi_uc)b;
        out[3] = 255;
        out += step;
    }
}
#endif

// set up the kernels
static void stbi__setup_jpeg(stbi__jpeg *j)
{
    j->idct_block_kernel = stbi__idct_block;
    j->YCbCr_to_RGB_kernel = stbi__YCbCr_to_RGB_row;
    j->resample_row_hv_2_kernel = stbi__resample_row_hv_2;

#ifdef STBI_SSE2
    if (stbi__sse2_available()) {
        j->idct_block_kernel = stbi__idct_simd;
        j->YCbCr_to_RGB_kernel = stbi__YCbCr_to_RGB_simd;
        j->resample_row_hv_2_kernel = stbi__resample_row_hv_2_simd;
    }
#endif

#ifdef STBI_NEON
    j->idct_block_kernel = stbi__idct_simd;
    j->YCbCr_to_RGB_kernel = stbi__YCbCr_to_RGB_simd;
    j->resample_row_hv_2_kernel = stbi__resample_row_hv_2_simd;
#endif
}

// clean up the temporary component buffers
static void stbi__cleanup_jpeg(stbi__jpeg *j)
{
    stbi__free_jpeg_components(j, j->s->img_n, 0);
}

typedef struct
{
    resample_row_func resample;
    stbi_uc *line0, *line1;
}

```

```

    int hs, vs;    // expansion factor in each axis
    int w_lores;  // horizontal pixels pre-expansion
    int ystep;    // how far through vertical expansion we are
    int ypos;     // which pre-expansion row we're on
} stbi__resample;

// fast 0..255 * 0..255 => 0..255 rounded multiplication
static stbi_uc stbi__blinn_8x8(stbi_uc x, stbi_uc y)
{
    unsigned int t = x*y + 128;
    return (stbi_uc)((t + (t >> 8)) >> 8);
}

static stbi_uc *load_jpeg_image(stbi__jpeg *z, int *out_x, int *out_y, int *comp, int
req_comp)
{
    int n, decode_n, is_rgb;
    z->s->img_n = 0; // make stbi__cleanup_jpeg safe

    // validate req_comp
    if (req_comp < 0 || req_comp > 4) return stbi__errpuc("bad req_comp", "Intern
al error");

    // load a jpeg image from whichever source, but leave in YCbCr format
    if (!stbi__decode_jpeg_image(z)) { stbi__cleanup_jpeg(z); return NULL; }

    // determine actual number of components to generate
    n = req_comp ? req_comp : z->s->img_n >= 3 ? 3 : 1;

    is_rgb = z->s->img_n == 3 && (z->rgb == 3 || (z->app14_color_transform == 0 &&
!z->jfif));

    if (z->s->img_n == 3 && n < 3 && !is_rgb)
        decode_n = 1;
    else
        decode_n = z->s->img_n;

    // resample and color-convert
    {
        int k;
        unsigned int i, j;
        stbi_uc *output;
        stbi_uc *coutput[4];

        stbi__resample res_comp[4];

        for (k = 0; k < decode_n; ++k) {
            stbi__resample *r = &res_comp[k];

            // allocate line buffer big enough for upsampling off the edge
            // with upsample factor of 4
            z->img_comp[k].linebuf = (stbi_uc *)stbi__malloc(z->s->img_x +
3);

            if (!z->img_comp[k].linebuf) { stbi__cleanup_jpeg(z); return s
tbi__errpuc("outofmem", "Out of memory"); }

            r->hs = z->img_h_max / z->img_comp[k].h;
            r->vs = z->img_v_max / z->img_comp[k].v;
            r->ystep = r->vs >> 1;
            r->w_lores = (z->s->img_x + r->hs - 1) / r->hs;
            r->ypos = 0;
            r->line0 = r->line1 = z->img_comp[k].data;

            if (r->hs == 1 && r->vs == 1) r->resample = resample_row_1;
            else if (r->hs == 1 && r->vs == 2) r->resample = stbi__resampl
e_row_v_2;
            else if (r->hs == 2 && r->vs == 1) r->resample = stbi__resampl
e_row_h_2;

```

```

else if (r->hs == 2 && r->vs == 2) r->resample = z->resample_r
ow_hv_2_kernel;
else
e_row_generic;
r->resample = stbi__resampl
}

// can't error after this so, this is safe
output = (stbi_uc *)stbi__malloc_mad3(n, z->s->img_x, z->s->img_y, 1);
if (!output) { stbi__cleanup_jpeg(z); return stbi__errpuc("outofmem",
"Out of memory"); }

// now go ahead and resample
for (j = 0; j < z->s->img_y; ++j) {
    stbi_uc *out = output + n * z->s->img_x * j;
    for (k = 0; k < decode_n; ++k) {
        stbi__resample *r = &res_comp[k];
        int y_bot = r->ystep >= (r->vs >> 1);
        coutput[k] = r->resample(z->img_comp[k].linebuf,
            y_bot ? r->line1 : r->line0,
            y_bot ? r->line0 : r->line1,
            r->w_lores, r->hs);
        if (++r->ystep >= r->vs) {
            r->ystep = 0;
            r->line0 = r->line1;
            if (++r->ypos < z->img_comp[k].y)
                r->line1 += z->img_comp[k].w2;
        }
    }
}
if (n >= 3) {
    stbi_uc *y = coutput[0];
    if (z->s->img_n == 3) {
        if (is_rgb) {
            for (i = 0; i < z->s->img_x; ++i) {
                out[0] = y[i];
                out[1] = coutput[1][i];
                out[2] = coutput[2][i];
                out[3] = 255;
                out += n;
            }
        }
        else {
            z->YCbCr_to_RGB_kernel(out, y, coutput
[1], coutput[2], z->s->img_x, n);
        }
    }
    else if (z->s->img_n == 4) {
        if (z->app14_color_transform == 0) { // CMYK
            for (i = 0; i < z->s->img_x; ++i) {
                stbi_uc m = coutput[3][i];
                out[0] = stbi__blinn_8x8(coutp
ut[0][i], m);
                out[1] = stbi__blinn_8x8(coutp
ut[1][i], m);
                out[2] = stbi__blinn_8x8(coutp
ut[2][i], m);
                out[3] = 255;
                out += n;
            }
        }
        else if (z->app14_color_transform == 2) { // Y
            z->YCbCr_to_RGB_kernel(out, y, coutput
[1], coutput[2], z->s->img_x, n);
            for (i = 0; i < z->s->img_x; ++i) {
                stbi_uc m = coutput[3][i];
                out[0] = stbi__blinn_8x8(255 -
out[0], m);
                out[1] = stbi__blinn_8x8(255 -

```



```

        *out_x = z->s->img_x;
        *out_y = z->s->img_y;
        if (comp) *comp = z->s->img_n >= 3 ? 3 : 1; // report original compone
nts, not output
        return output;
    }
}

static void *stbi__jpeg_load(stbi__context *s, int *x, int *y, int *comp, int req_comp
, stbi__result_info *ri)
{
    unsigned char* result;
    stbi__jpeg* j = (stbi__jpeg*)stbi__malloc(sizeof(stbi__jpeg));
    STBI_NOTUSED(ri);
    j->s = s;
    stbi__setup_jpeg(j);
    result = load_jpeg_image(j, x, y, comp, req_comp);
    STBI_FREE(j);
    return result;
}

static int stbi__jpeg_test(stbi__context *s)
{
    int r;
    stbi__jpeg* j = (stbi__jpeg*)stbi__malloc(sizeof(stbi__jpeg));
    j->s = s;
    stbi__setup_jpeg(j);
    r = stbi__decode_jpeg_header(j, STBI__SCAN_type);
    stbi__rewind(s);
    STBI_FREE(j);
    return r;
}

static int stbi__jpeg_info_raw(stbi__jpeg *j, int *x, int *y, int *comp)
{
    if (!stbi__decode_jpeg_header(j, STBI__SCAN_header)) {
        stbi__rewind(j->s);
        return 0;
    }
    if (x) *x = j->s->img_x;
    if (y) *y = j->s->img_y;
    if (comp) *comp = j->s->img_n >= 3 ? 3 : 1;
    return 1;
}

static int stbi__jpeg_info(stbi__context *s, int *x, int *y, int *comp)
{
    int result;
    stbi__jpeg* j = (stbi__jpeg*)(stbi__malloc(sizeof(stbi__jpeg)));
    j->s = s;
    result = stbi__jpeg_info_raw(j, x, y, comp);
    STBI_FREE(j);
    return result;
}
#endif

// public domain zlib decode    v0.2  Sean Barrett 2006-11-18
// simple implementation
// - all input must be provided in an upfront buffer
// - all output is written to a single output buffer (can malloc/realloc)
// performance
// - fast huffman

#ifdef STBI_NO_ZLIB

// fast-way is faster to check than jpeg huffman, but slow way is slower
#define STBI__ZFAST_BITS 9 // accelerate all cases in default tables
#define STBI__ZFAST_MASK ((1 << STBI__ZFAST_BITS) - 1)

```

```

// zlib-style huffman encoding
// (jpegs packs from left, zlib from right, so can't share code)
typedef struct
{
    stbi__uint16 fast[1 << STBI__ZFAST_BITS];
    stbi__uint16 firstcode[16];
    int maxcode[17];
    stbi__uint16 firstsymbol[16];
    stbi_uc size[288];
    stbi__uint16 value[288];
} stbi__zhuffman;

stbi_inline static int stbi__bitreversel6(int n)
{
    n = ((n & 0xAAAA) >> 1) | ((n & 0x5555) << 1);
    n = ((n & 0xCCCC) >> 2) | ((n & 0x3333) << 2);
    n = ((n & 0xF0F0) >> 4) | ((n & 0x0F0F) << 4);
    n = ((n & 0xFF00) >> 8) | ((n & 0x00FF) << 8);
    return n;
}

stbi_inline static int stbi__bit_reverse(int v, int bits)
{
    STBI_ASSERT(bits <= 16);
    // to bit reverse n bits, reverse 16 and shift
    // e.g. 11 bits, bit reverse and shift away 5
    return stbi__bitreversel6(v) >> (16 - bits);
}

static int stbi__zbuild_huffman(stbi__zhuffman *z, const stbi_uc *sizelist, int num)
{
    int i, k = 0;
    int code, next_code[16], sizes[17];

    // DEFLATE spec for generating codes
    memset(sizes, 0, sizeof(sizes));
    memset(z->fast, 0, sizeof(z->fast));
    for (i = 0; i < num; ++i)
        ++sizes[sizelist[i]];
    sizes[0] = 0;
    for (i = 1; i < 16; ++i)
        if (sizes[i] > (1 << i))
            return stbi__err("bad sizes", "Corrupt PNG");
    code = 0;
    for (i = 1; i < 16; ++i) {
        next_code[i] = code;
        z->firstcode[i] = (stbi__uint16)code;
        z->firstsymbol[i] = (stbi__uint16)k;
        code = (code + sizes[i]);
        if (sizes[i])
            if (code - 1 >= (1 << i)) return stbi__err("bad codelengths",
"Corrupt PNG");
        z->maxcode[i] = code << (16 - i); // preshift for inner loop
        code <<= 1;
        k += sizes[i];
    }
    z->maxcode[16] = 0x10000; // sentinel
    for (i = 0; i < num; ++i) {
        int s = sizelist[i];
        if (s) {
            int c = next_code[s] - z->firstcode[s] + z->firstsymbol[s];
            stbi__uint16 fastv = (stbi__uint16)((s << 9) | i);
            z->size[c] = (stbi_uc)s;
            z->value[c] = (stbi__uint16)i;
            if (s <= STBI__ZFAST_BITS) {
                int j = stbi__bit_reverse(next_code[s], s);
                while (j < (1 << STBI__ZFAST_BITS)) {
                    z->fast[j] = fastv;
                    j += (1 << s);
                }
            }
        }
    }
}

```



```

        }
        }
        ++next_code[s];
    }
    return 1;
}

// zlib-from-memory implementation for PNG reading
// because PNG allows splitting the zlib stream arbitrarily,
// and it's annoying structurally to have PNG call ZLIB call PNG,
// we require PNG read all the IDATs and combine them into a single
// memory buffer

typedef struct
{
    stbi_uc *zbuffer, *zbuffer_end;
    int num_bits;
    stbi_uint32 code_buffer;

    char *zout;
    char *zout_start;
    char *zout_end;
    int z_expandable;

    stbi__zhuffman z_length, z_distance;
} stbi__zbuf;

stbi_inline static stbi_uc stbi__zget8(stbi__zbuf *z)
{
    if (z->zbuffer >= z->zbuffer_end) return 0;
    return *z->zbuffer++;
}

static void stbi__fill_bits(stbi__zbuf *z)
{
    do {
        STBI_ASSERT(z->code_buffer < (1U << z->num_bits));
        z->code_buffer |= (unsigned int)stbi__zget8(z) << z->num_bits;
        z->num_bits += 8;
    } while (z->num_bits <= 24);
}

stbi_inline static unsigned int stbi__zreceive(stbi__zbuf *z, int n)
{
    unsigned int k;
    if (z->num_bits < n) stbi__fill_bits(z);
    k = z->code_buffer & ((1 << n) - 1);
    z->code_buffer >>= n;
    z->num_bits -= n;
    return k;
}

static int stbi__zhuffman_decode_slowpath(stbi__zbuf *a, stbi__zhuffman *z)
{
    int b, s, k;
    // not resolved by fast table, so compute it the slow way
    // use jpeg approach, which requires MSbits at top
    k = stbi__bit_reverse(a->code_buffer, 16);
    for (s = STBI__ZFAST_BITS + 1; ; ++s)
        if (k < z->maxcode[s])
            break;
    if (s == 16) return -1; // invalid code!
    // code size is s, so:
    b = (k >> (16 - s)) - z->firstcode[s] + z->firstsymbol[s];
    STBI_ASSERT(z->size[b] == s);
    a->code_buffer >>= s;
    a->num_bits -= s;
    return z->value[b];
}

```

```

}

stbi_inline static int stbi__zhuffman_decode(stbi__zbuf *a, stbi__zhuffman *z)
{
    int b, s;
    if (a->num_bits < 16) stbi__fill_bits(a);
    b = z->fast[a->code_buffer & STBI__ZFAST_MASK];
    if (b) {
        s = b >> 9;
        a->code_buffer >>= s;
        a->num_bits -= s;
        return b & 511;
    }
    return stbi__zhuffman_decode_slowpath(a, z);
}

static int stbi__zexpand(stbi__zbuf *z, char *zout, int n) // need to make room for n
bytes
{
    char *q;
    int cur, limit, old_limit;
    z->zout = zout;
    if (!z->z_expandable) return stbi__err("output buffer limit", "Corrupt PNG");
    cur = (int) (z->zout - z->zout_start);
    limit = old_limit = (int) (z->zout_end - z->zout_start);
    while (cur + n > limit)
        limit *= 2;
    q = (char *)STBI_REALLOC_SIZED(z->zout_start, old_limit, limit);
    STBI_NOTUSED(old_limit);
    if (q == NULL) return stbi__err("outofmem", "Out of memory");
    z->zout_start = q;
    z->zout = q + cur;
    z->zout_end = q + limit;
    return 1;
}

static int stbi__zlength_base[31] = {
    3,4,5,6,7,8,9,10,11,13,
    15,17,19,23,27,31,35,43,51,59,
    67,83,99,115,131,163,195,227,258,0,0 };

static int stbi__zlength_extra[31] =
{ 0,0,0,0,0,0,0,0,1,1,1,1,2,2,2,2,3,3,3,3,4,4,4,4,5,5,5,5,0,0,0 };

static int stbi__zdist_base[32] = { 1,2,3,4,5,7,9,13,17,25,33,49,65,97,129,193,
257,385,513,769,1025,1537,2049,3073,4097,6145,8193,12289,16385,24577,0,0 };

static int stbi__zdist_extra[32] =
{ 0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13 };

static int stbi__parse_huffman_block(stbi__zbuf *a)
{
    char *zout = a->zout;
    for (;;) {
        int z = stbi__zhuffman_decode(a, &a->z_length);
        if (z < 256) {
            if (z < 0) return stbi__err("bad huffman code", "Corrupt PNG");
            // error in huffman codes
            if (zout >= a->zout_end) {
                if (!stbi__zexpand(a, zout, 1)) return 0;
                zout = a->zout;
            }
            *zout++ = (char)z;
        }
        else {
            stbi_uc *p;
            int len, dist;
            if (z == 256) {
                a->zout = zout;
            }

```

```

        return 1;
    }
    z -= 257;
    len = stbi__zlength_base[z];
    if (stbi__zlength_extra[z]) len += stbi__zreceive(a, stbi__zle
ngth_extra[z]);
    z = stbi__zhuffman_decode(a, &a->z_distance);
    if (z < 0) return stbi__err("bad huffman code", "Corrupt PNG")
;
    dist = stbi__zdist_base[z];
    if (stbi__zdist_extra[z]) dist += stbi__zreceive(a, stbi__zdis
t_extra[z]);
    if (zout - a->zout_start < dist) return stbi__err("bad dist",
"Corrupt PNG");
    if (zout + len > a->zout_end) {
        if (!stbi__zexpand(a, zout, len)) return 0;
        zout = a->zout;
    }
    p = (stbi_uc *) (zout - dist);
    if (dist == 1) { // run of one byte; common in images.
        stbi_uc v = *p;
        if (len) { do *zout++ = v; while (--len); }
    }
    else {
        if (len) { do *zout++ = *p++; while (--len); }
    }
}
}

static int stbi__compute_huffman_codes(stbi__zbuf *a)
{
    static stbi_uc length_dezigzag[19] = { 16,17,18,0,8,7,9,6,10,5,11,4,12,3,13,2,
14,1,15 };
    stbi__zhuffman z_codelength;
    stbi_uc lencodes[286 + 32 + 137]; //padding for maximum single op
stbi_uc codelength_sizes[19];
    int i, n;

    int hlit = stbi__zreceive(a, 5) + 257;
    int hdist = stbi__zreceive(a, 5) + 1;
    int hclen = stbi__zreceive(a, 4) + 4;
    int ntot = hlit + hdist;

    memset(codelength_sizes, 0, sizeof(codelength_sizes));
    for (i = 0; i < hclen; ++i) {
        int s = stbi__zreceive(a, 3);
        codelength_sizes[length_dezigzag[i]] = (stbi_uc)s;
    }
    if (!stbi__zbuild_huffman(&z_codelength, codelength_sizes, 19)) return 0;

    n = 0;
    while (n < ntot) {
        int c = stbi__zhuffman_decode(a, &z_codelength);
        if (c < 0 || c >= 19) return stbi__err("bad codelengths", "Corrupt PNG
");
        if (c < 16)
            lencodes[n++] = (stbi_uc)c;
        else {
            stbi_uc fill = 0;
            if (c == 16) {
                c = stbi__zreceive(a, 2) + 3;
                if (n == 0) return stbi__err("bad codelengths", "Corru
pt PNG");
                fill = lencodes[n - 1];
            }
            else if (c == 17)
                c = stbi__zreceive(a, 3) + 3;
            else {

```



```

STBIDEF char *stbi_zlib_decode_malloc_guesssize(const char *buffer, int len, int initial_size, int *outlen)
{
    stbi__zbuf a;
    char *p = (char *)stbi__malloc(initial_size);
    if (p == NULL) return NULL;
    a.zbuffer = (stbi_uc *)buffer;
    a.zbuffer_end = (stbi_uc *)buffer + len;
    if (stbi__do_zlib(&a, p, initial_size, 1, 1)) {
        if (outlen) *outlen = (int)(a.zout - a.zout_start);
        return a.zout_start;
    }
    else {
        STBI_FREE(a.zout_start);
        return NULL;
    }
}

STBIDEF char *stbi_zlib_decode_malloc(char const *buffer, int len, int *outlen)
{
    return stbi_zlib_decode_malloc_guesssize(buffer, len, 16384, outlen);
}

STBIDEF char *stbi_zlib_decode_malloc_guesssize_headerflag(const char *buffer, int len, int initial_size, int *outlen, int parse_header)
{
    stbi__zbuf a;
    char *p = (char *)stbi__malloc(initial_size);
    if (p == NULL) return NULL;
    a.zbuffer = (stbi_uc *)buffer;
    a.zbuffer_end = (stbi_uc *)buffer + len;
    if (stbi__do_zlib(&a, p, initial_size, 1, parse_header)) {
        if (outlen) *outlen = (int)(a.zout - a.zout_start);
        return a.zout_start;
    }
    else {
        STBI_FREE(a.zout_start);
        return NULL;
    }
}

STBIDEF int stbi_zlib_decode_buffer(char *obuffer, int olen, char const *ibuffer, int ilen)
{
    stbi__zbuf a;
    a.zbuffer = (stbi_uc *)ibuffer;
    a.zbuffer_end = (stbi_uc *)ibuffer + ilen;
    if (stbi__do_zlib(&a, obuffer, olen, 0, 1))
        return (int)(a.zout - a.zout_start);
    else
        return -1;
}

STBIDEF char *stbi_zlib_decode_noheader_malloc(char const *buffer, int len, int *outlen)
{
    stbi__zbuf a;
    char *p = (char *)stbi__malloc(16384);
    if (p == NULL) return NULL;
    a.zbuffer = (stbi_uc *)buffer;
    a.zbuffer_end = (stbi_uc *)buffer + len;
    if (stbi__do_zlib(&a, p, 16384, 1, 0)) {
        if (outlen) *outlen = (int)(a.zout - a.zout_start);
        return a.zout_start;
    }
    else {
        STBI_FREE(a.zout_start);
        return NULL;
    }
}

```

```

}

STBIDEF int stbi_zlib_decode_noheader_buffer(char *obuffer, int olen, const char *ibuffer, int ilen)
{
    stbi__zbuf a;
    a.zbuffer = (stbi_uc *)ibuffer;
    a.zbuffer_end = (stbi_uc *)ibuffer + ilen;
    if (stbi__do_zlib(&a, obuffer, olen, 0, 0))
        return (int)(a.zout - a.zout_start);
    else
        return -1;
}
#endif

// public domain "baseline" PNG decoder v0.10 Sean Barrett 2006-11-18
// simple implementation
// - only 8-bit samples
// - no CRC checking
// - allocates lots of intermediate memory
// - avoids problem of streaming data between subsystems
// - avoids explicit window management
// performance
// - uses stb_zlib, a PD zlib implementation with fast huffman decoding

#ifndef STBI_NO_PNG
typedef struct
{
    stbi__uint32 length;
    stbi__uint32 type;
} stbi__pngchunk;

static stbi__pngchunk stbi__get_chunk_header(stbi__context *s)
{
    stbi__pngchunk c;
    c.length = stbi__get32be(s);
    c.type = stbi__get32be(s);
    return c;
}

static int stbi__check_png_header(stbi__context *s)
{
    static stbi_uc png_sig[8] = { 137,80,78,71,13,10,26,10 };
    int i;
    for (i = 0; i < 8; ++i)
        if (stbi__get8(s) != png_sig[i]) return stbi__err("bad png sig", "Not a PNG");
    return 1;
}

typedef struct
{
    stbi__context *s;
    stbi_uc *idata, *expanded, *out;
    int depth;
} stbi__png;

enum {
    STBI__F_none = 0,
    STBI__F_sub = 1,
    STBI__F_up = 2,
    STBI__F_avg = 3,
    STBI__F_paeth = 4,
    // synthetic filters used for first scanline to avoid needing a dummy row of 0
    STBI__F_avg_first,
    STBI__F_paeth_first
};

```

```

static stbi_uc first_row_filter[5] =
{
    STBI__F_none,
    STBI__F_sub,
    STBI__F_none,
    STBI__F_avg_first,
    STBI__F_paeth_first
};

static int stbi__paeth(int a, int b, int c)
{
    int p = a + b - c;
    int pa = abs(p - a);
    int pb = abs(p - b);
    int pc = abs(p - c);
    if (pa <= pb && pa <= pc) return a;
    if (pb <= pc) return b;
    return c;
}

static stbi_uc stbi__depth_scale_table[9] = { 0, 0xff, 0x55, 0, 0x11, 0,0,0, 0x01 };

// create the png data from post-deflated data
static int stbi__create_png_image_raw(stbi__png *a, stbi_uc *raw, stbi__uint32 raw_len
, int out_n, stbi__uint32 x, stbi__uint32 y, int depth, int color)
{
    int bytes = (depth == 16 ? 2 : 1);
    stbi__context *s = a->s;
    stbi__uint32 i, j, stride = x*out_n*bytes;
    stbi__uint32 img_len, img_width_bytes;
    int k;
    int img_n = s->img_n; // copy it into a local for later

    int output_bytes = out_n*bytes;
    int filter_bytes = img_n*bytes;
    int width = x;

    STBI_ASSERT(out_n == s->img_n || out_n == s->img_n + 1);
    a->out = (stbi_uc *)stbi__malloc_mad3(x, y, output_bytes, 0); // extra bytes t
o write off the end into
    if (!a->out) return stbi__err("outofmem", "Out of memory");

    img_width_bytes = (((img_n * x * depth) + 7) >> 3);
    img_len = (img_width_bytes + 1) * y;
    // we used to check for exact match between raw_len and img_len on non-interla
ced PNGs,
    // but issue #276 reported a PNG in the wild that had extra data at the end (a
ll zeros),
    // so just check for raw_len < img_len always.
    if (raw_len < img_len) return stbi__err("not enough pixels", "Corrupt PNG");

    for (j = 0; j < y; ++j) {
        stbi_uc *cur = a->out + stride*j;
        stbi_uc *prior;
        int filter = *raw++;

        if (filter > 4)
            return stbi__err("invalid filter", "Corrupt PNG");

        if (depth < 8) {
            STBI_ASSERT(img_width_bytes <= x);
            cur += x*out_n - img_width_bytes; // store output to the right
most img_len bytes, so we can decode in place
            filter_bytes = 1;
            width = img_width_bytes;
        }
        prior = cur - stride; // bugfix: need to compute this after 'cur += ' c
omputation above

```



```

// if first row, use special
filter that doesn't sample previous row
    if (j == 0) filter = first_row_filter[filter];

// handle first byte explicitly
for (k = 0; k < filter_bytes; ++k) {
    switch (filter) {
    case STBI__F_none: cur[k] = raw[k]; break;
    case STBI__F_sub: cur[k] = raw[k]; break;
    case STBI__F_up: cur[k] = STBI__BYTECAST(raw[k] + prior[k]); b
reak;
    case STBI__F_avg: cur[k] = STBI__BYTECAST(raw[k] + (prior[k] >
> 1)); break;
    case STBI__F_paeth: cur[k] = STBI__BYTECAST(raw[k] + stbi__pae
th(0, prior[k], 0)); break;
    case STBI__F_avg_first: cur[k] = raw[k]; break;
    case STBI__F_paeth_first: cur[k] = raw[k]; break;
    }
}

if (depth == 8) {
    if (img_n != out_n)
        cur[img_n] = 255; // first pixel
    raw += img_n;
    cur += out_n;
    prior += out_n;
}
else if (depth == 16) {
    if (img_n != out_n) {
        cur[filter_bytes] = 255; // first pixel top byte
        cur[filter_bytes + 1] = 255; // first pixel bottom byt
e
    }
    raw += filter_bytes;
    cur += output_bytes;
    prior += output_bytes;
}
else {
    raw += 1;
    cur += 1;
    prior += 1;
}

// this is a little gross, so that we don't switch per-pixel or per-co
mponent
if (depth < 8 || img_n == out_n) {
    int nk = (width - 1)*filter_bytes;
#define STBI__CASE(f) \
    case f: \
        for (k=0; k < nk; ++k)
        switch (filter) {
            // "none" filter turns into a memcpy here; make that e
xplicit.
            case STBI__F_none: memcpy(cur, raw, nk); break;
            STBI__CASE(STBI__F_sub) { cur[k] = STBI__BYTECAST(raw[
k] + cur[k - filter_bytes]); } break;
            STBI__CASE(STBI__F_up) { cur[k] = STBI__BYTECAST(raw[k
] + prior[k]); } break;
            STBI__CASE(STBI__F_avg) { cur[k] = STBI__BYTECAST(raw[
k] + ((prior[k] + cur[k - filter_bytes]) >> 1)); } break;
            STBI__CASE(STBI__F_paeth) { cur[k] = STBI__BYTECAST(ra
w[k] + stbi__paeth(cur[k - filter_bytes], prior[k], prior[k - filter_bytes])); } break
;
            STBI__CASE(STBI__F_avg_first) { cur[k] = STBI__BYTECAS
T(raw[k] + (cur[k - filter_bytes] >> 1)); } break;
            STBI__CASE(STBI__F_paeth_first) { cur[k] = STBI__BYTEC
AST(raw[k] + stbi__paeth(cur[k - filter_bytes], 0, 0)); } break;
        }
}

```

```

#undef STBI__CASE
        }
        } else {
            STBI_ASSERT(img_n + 1 == out_n);
#define STBI__CASE(f) \
        case f: \
            for (i=x-1; i >= 1; --i, cur[filter_bytes]=255,raw+=filter_bytes,cur+=
output_bytes,prior+=output_bytes) \
                for (k=0; k < filter_bytes; ++k)
                    switch (filter) {
                        STBI__CASE(STBI__F_none) { cur[k] = raw[k]; } break;
                        STBI__CASE(STBI__F_sub) { cur[k] = STBI__BYTECAST(raw[
k] + cur[k - output_bytes]); } break;
                        STBI__CASE(STBI__F_up) { cur[k] = STBI__BYTECAST(raw[k
] + prior[k]); } break;
                        STBI__CASE(STBI__F_avg) { cur[k] = STBI__BYTECAST(raw[
k] + ((prior[k] + cur[k - output_bytes]) >> 1)); } break;
                        STBI__CASE(STBI__F_paeth) { cur[k] = STBI__BYTECAST(ra
w[k] + stbi__paeth(cur[k - output_bytes], prior[k], prior[k - output_bytes])); } break
;
                        STBI__CASE(STBI__F_avg_first) { cur[k] = STBI__BYTECAS
T(raw[k] + (cur[k - output_bytes] >> 1)); } break;
                        STBI__CASE(STBI__F_paeth_first) { cur[k] = STBI__BYTEC
AST(raw[k] + stbi__paeth(cur[k - output_bytes], 0, 0)); } break;
                    }
#undef STBI__CASE

        // the loop above sets the high byte of the pixels' alpha, but
        for // 16 bit png files we also need the low byte set. we'll do th
at here.
        if (depth == 16) {
            cur = a->out + stride*j; // start at the beginning of
the row again
            for (i = 0; i < x; ++i, cur += output_bytes) {
                cur[filter_bytes + 1] = 255;
            }
        }

        // we make a separate pass to expand bits to pixels; for performance,
        // this could run two scanlines behind the above code, so it won't
        // interfere with filtering but will still be in the cache.
        if (depth < 8) {
            for (j = 0; j < y; ++j) {
                stbi_uc *cur = a->out + stride*j;
                stbi_uc *in = a->out + stride*j + x*out_n - img_width_bytes;
                // unpack 1/2/4-bit into a 8-bit buffer. allows us to keep the
                common 8-bit path optimal at minimal cost for 1/2/4-bit
                // png guarante byte alignment, if width is not multiple of 8/
                4/2 we'll decode dummy trailing data that will be skipped in the later loop
                stbi_uc scale = (color == 0) ? stbi__depth_scale_table[depth]
: 1; // scale grayscale values to 0..255 range

                // note that the
                final byte might overshoot and write more data than desired.

                // we can allocat
                e enough data that this never writes out of memory, but it

                // could also ove
                rwrite the next scanline. can it overwrite non-empty data

                // on the next sc
                anline? yes, consider 1-pixel-wide scanlines with 1-bit-per-pixel.

```

// so we need to

explicitly clamp the final ones

```

    if (depth == 4) {
        for (k = x*img_n; k >= 2; k -= 2, ++in) {
            *cur++ = scale * ((*in >> 4));
            *cur++ = scale * ((*in) & 0x0f);
        }
        if (k > 0) *cur++ = scale * ((*in >> 4));
    }
    else if (depth == 2) {
        for (k = x*img_n; k >= 4; k -= 4, ++in) {
            *cur++ = scale * ((*in >> 6));
            *cur++ = scale * ((*in >> 4) & 0x03);
            *cur++ = scale * ((*in >> 2) & 0x03);
            *cur++ = scale * ((*in) & 0x03);
        }
        if (k > 0) *cur++ = scale * ((*in >> 6));
        if (k > 1) *cur++ = scale * ((*in >> 4) & 0x03);
        if (k > 2) *cur++ = scale * ((*in >> 2) & 0x03);
    }
    else if (depth == 1) {
        for (k = x*img_n; k >= 8; k -= 8, ++in) {
            *cur++ = scale * ((*in >> 7));
            *cur++ = scale * ((*in >> 6) & 0x01);
            *cur++ = scale * ((*in >> 5) & 0x01);
            *cur++ = scale * ((*in >> 4) & 0x01);
            *cur++ = scale * ((*in >> 3) & 0x01);
            *cur++ = scale * ((*in >> 2) & 0x01);
            *cur++ = scale * ((*in >> 1) & 0x01);
            *cur++ = scale * ((*in) & 0x01);
        }
        if (k > 0) *cur++ = scale * ((*in >> 7));
        if (k > 1) *cur++ = scale * ((*in >> 6) & 0x01);
        if (k > 2) *cur++ = scale * ((*in >> 5) & 0x01);
        if (k > 3) *cur++ = scale * ((*in >> 4) & 0x01);
        if (k > 4) *cur++ = scale * ((*in >> 3) & 0x01);
        if (k > 5) *cur++ = scale * ((*in >> 2) & 0x01);
        if (k > 6) *cur++ = scale * ((*in >> 1) & 0x01);
    }
    if (img_n != out_n) {
        int q;
        // insert alpha = 255
        cur = a->out + stride*j;
        if (img_n == 1) {
            for (q = x - 1; q >= 0; --q) {
                cur[q * 2 + 1] = 255;
                cur[q * 2 + 0] = cur[q];
            }
        }
        else {
            STBI_ASSERT(img_n == 3);
            for (q = x - 1; q >= 0; --q) {
                cur[q * 4 + 3] = 255;
                cur[q * 4 + 2] = cur[q * 3 + 2];
                cur[q * 4 + 1] = cur[q * 3 + 1];
                cur[q * 4 + 0] = cur[q * 3 + 0];
            }
        }
    }
}
}
else if (depth == 16) {
    // force the image data from big-endian to platform-native.
    // this is done in a separate pass due to the decoding relying
    // on the data being untouched, but could probably be done
    // per-line during decode if care is taken.
    stbi_uc *cur = a->out;
    stbi_uint16 *cur16 = (stbi_uint16*)cur;

```

```

        for (i = 0; i < x*y*out_n; ++i, cur16++, cur += 2) {
            *cur16 = (cur[0] << 8) | cur[1];
        }
    }

    return 1;
}

static int stbi__create_png_image(stbi__png *a, stbi_uc *image_data, stbi__uint32 image_data_len, int out_n, int depth, int color, int interlaced)
{
    int bytes = (depth == 16 ? 2 : 1);
    int out_bytes = out_n * bytes;
    stbi_uc *final;
    int p;
    if (!interlaced)
        return stbi__create_png_image_raw(a, image_data, image_data_len, out_n, a->s->img_x, a->s->img_y, depth, color);

    // de-interlacing
    final = (stbi_uc *)stbi__malloc_mad3(a->s->img_x, a->s->img_y, out_bytes, 0);
    for (p = 0; p < 7; ++p) {
        int xorig[] = { 0,4,0,2,0,1,0 };
        int yorig[] = { 0,0,4,0,2,0,1 };
        int xspc[] = { 8,8,4,4,2,2,1 };
        int yspc[] = { 8,8,8,4,4,2,2 };
        int i, j, x, y;
        // pass1_x[4] = 0, pass1_x[5] = 1, pass1_x[12] = 1
        x = (a->s->img_x - xorig[p] + xspc[p] - 1) / xspc[p];
        y = (a->s->img_y - yorig[p] + yspc[p] - 1) / yspc[p];
        if (x && y) {
            stbi__uint32 img_len = (((a->s->img_n * x * depth) + 7) >> 3)
+ 1) * y;
            if (!stbi__create_png_image_raw(a, image_data, image_data_len, out_n, x, y, depth, color)) {
                STBI_FREE(final);
                return 0;
            }
            for (j = 0; j < y; ++j) {
                for (i = 0; i < x; ++i) {
                    int out_y = j*yspc[p] + yorig[p];
                    int out_x = i*xspc[p] + xorig[p];
                    memcpy(final + out_y*a->s->img_x*out_bytes + out_x*out_bytes,
a->out + (j*x + i)*out_bytes, out_bytes);
                }
            }
            STBI_FREE(a->out);
            image_data += img_len;
            image_data_len -= img_len;
        }
    }
    a->out = final;

    return 1;
}

static int stbi__compute_transparency(stbi__png *z, stbi_uc tc[3], int out_n)
{
    stbi__context *s = z->s;
    stbi__uint32 i, pixel_count = s->img_x * s->img_y;
    stbi_uc *p = z->out;

    // compute color-based transparency, assuming we've
    // already got 255 as the alpha value in the output
    STBI_ASSERT(out_n == 2 || out_n == 4);

```

```

    if (out_n == 2) {
        for (i = 0; i < pixel_count; ++i) {
            p[1] = (p[0] == tc[0] ? 0 : 255);
            p += 2;
        }
    }
    else {
        for (i = 0; i < pixel_count; ++i) {
            if (p[0] == tc[0] && p[1] == tc[1] && p[2] == tc[2])
                p[3] = 0;
            p += 4;
        }
    }
    return 1;
}

static int stbi__compute_transparency16(stbi__png *z, stbi__uint16 tc[3], int out_n)
{
    stbi__context *s = z->s;
    stbi__uint32 i, pixel_count = s->img_x * s->img_y;
    stbi__uint16 *p = (stbi__uint16*)z->out;

    // compute color-based transparency, assuming we've
    // already got 65535 as the alpha value in the output
    STBI_ASSERT(out_n == 2 || out_n == 4);

    if (out_n == 2) {
        for (i = 0; i < pixel_count; ++i) {
            p[1] = (p[0] == tc[0] ? 0 : 65535);
            p += 2;
        }
    }
    else {
        for (i = 0; i < pixel_count; ++i) {
            if (p[0] == tc[0] && p[1] == tc[1] && p[2] == tc[2])
                p[3] = 0;
            p += 4;
        }
    }
    return 1;
}

static int stbi__expand_png_palette(stbi__png *a, stbi_uc *palette, int len, int pal_img_n)
{
    stbi__uint32 i, pixel_count = a->s->img_x * a->s->img_y;
    stbi_uc *p, *temp_out, *orig = a->out;

    p = (stbi_uc *)stbi__malloc_mad2(pixel_count, pal_img_n, 0);
    if (p == NULL) return stbi__err("outofmem", "Out of memory");

    // between here and free(out) below, exiting would leak
    temp_out = p;

    if (pal_img_n == 3) {
        for (i = 0; i < pixel_count; ++i) {
            int n = orig[i] * 4;
            p[0] = palette[n];
            p[1] = palette[n + 1];
            p[2] = palette[n + 2];
            p += 3;
        }
    }
    else {
        for (i = 0; i < pixel_count; ++i) {
            int n = orig[i] * 4;
            p[0] = palette[n];
            p[1] = palette[n + 1];
            p[2] = palette[n + 2];
        }
    }
}

```

```

        p[3] = palette[n + 3];
        p += 4;
    }
}
STBI_FREE(a->out);
a->out = temp_out;

STBI_NOTUSED(len);

return 1;
}

static int stbi__unpremultiply_on_load = 0;
static int stbi__de_iphone_flag = 0;

STBIDEF void stbi_set_unpremultiply_on_load(int flag_true_if_should_unpremultiply)
{
    stbi__unpremultiply_on_load = flag_true_if_should_unpremultiply;
}

STBIDEF void stbi_convert_iphone_png_to_rgb(int flag_true_if_should_convert)
{
    stbi__de_iphone_flag = flag_true_if_should_convert;
}

static void stbi__de_iphone(stbi__png *z)
{
    stbi__context *s = z->s;
    stbi__uint32 i, pixel_count = s->img_x * s->img_y;
    stbi_uc *p = z->out;

    if (s->img_out_n == 3) { // convert bgr to rgb
        for (i = 0; i < pixel_count; ++i) {
            stbi_uc t = p[0];
            p[0] = p[2];
            p[2] = t;
            p += 3;
        }
    }
    else {
        STBI_ASSERT(s->img_out_n == 4);
        if (stbi__unpremultiply_on_load) {
            // convert bgr to rgb and unpremultiply
            for (i = 0; i < pixel_count; ++i) {
                stbi_uc a = p[3];
                stbi_uc t = p[0];
                if (a) {
                    stbi_uc half = a / 2;
                    p[0] = (p[2] * 255 + half) / a;
                    p[1] = (p[1] * 255 + half) / a;
                    p[2] = (t * 255 + half) / a;
                }
                else {
                    p[0] = p[2];
                    p[2] = t;
                }
                p += 4;
            }
        }
        else {
            // convert bgr to rgb
            for (i = 0; i < pixel_count; ++i) {
                stbi_uc t = p[0];
                p[0] = p[2];
                p[2] = t;
                p += 4;
            }
        }
    }
}

```

```

}

#define STBI__PNG_TYPE(a,b,c,d)  (((a) << 24) + ((b) << 16) + ((c) << 8) + (d))

static int stbi__parse_png_file(stbi__png *z, int scan, int req_comp)
{
    stbi_uc palette[1024], pal_img_n = 0;
    stbi_uc has_trans = 0, tc[3];
    stbi__uint16 tc16[3];
    stbi__uint32 ioff = 0, idata_limit = 0, i, pal_len = 0;
    int first = 1, k, interlace = 0, color = 0, is_iphone = 0;
    stbi__context *s = z->s;

    z->expanded = NULL;
    z->idata = NULL;
    z->out = NULL;

    if (!stbi__check_png_header(s)) return 0;

    if (scan == STBI__SCAN_type) return 1;

    for (;;) {
        stbi__pngchunk c = stbi__get_chunk_header(s);
        switch (c.type) {
            case STBI__PNG_TYPE('C', 'g', 'B', 'I'):
                is_iphone = 1;
                stbi__skip(s, c.length);
                break;
            case STBI__PNG_TYPE('I', 'H', 'D', 'R'): {
                int comp, filter;
                if (!first) return stbi__err("multiple IHDR", "Corrupt PNG");
                first = 0;
                if (c.length != 13) return stbi__err("bad IHDR len", "Corrupt
PNG");
                s->img_x = stbi__get32be(s); if (s->img_x > (1 << 24)) return
stbi__err("too large", "Very large image (corrupt?)");
                s->img_y = stbi__get32be(s); if (s->img_y > (1 << 24)) return
stbi__err("too large", "Very large image (corrupt?)");
                z->depth = stbi__get8(s); if (z->depth != 1 && z->depth != 2
&& z->depth != 4 && z->depth != 8 && z->depth != 16) return stbi__err("1/2/4/8/16-bit
only", "PNG not supported: 1/2/4/8/16-bit only");
                color = stbi__get8(s); if (color > 6) return stbi__er
r("bad ctype", "Corrupt PNG");
                if (color == 3 && z->depth == 16) return stbi
__err("bad ctype", "Corrupt PNG");
                if (color == 3) pal_img_n = 3; else if (color & 1) return stbi
__err("bad ctype", "Corrupt PNG");
                comp = stbi__get8(s); if (comp) return stbi__err("bad comp me
thod", "Corrupt PNG");
                filter = stbi__get8(s); if (filter) return stbi__err("bad fil
ter method", "Corrupt PNG");
                interlace = stbi__get8(s); if (interlace > 1) return stbi__err("
bad interlace method", "Corrupt PNG");
                if (!s->img_x || !s->img_y) return stbi__err("0-pixel image",
"Corrupt PNG");

                if (!pal_img_n) {
                    s->img_n = (color & 2 ? 3 : 1) + (color & 4 ? 1 : 0);
                    stbi__err("too large", "Image too large to decode");
                    if (scan == STBI__SCAN_header) return 1;
                }
                else {
                    // if paletted, then pal_n is our final components, an
d
                    // img_n is # components to decompress/filter.
                    s->img_n = 1;
                    if ((1 << 30) / s->img_x / 4 < s->img_y) return stbi__
err("too large", "Corrupt PNG");
                    // if SCAN_header, have to scan to see if we have a tR

```

NS

```

    }
    break;
}

case STBI_PNG_TYPE('P', 'L', 'T', 'E'): {
    if (first) return stbi__err("first not IHDR", "Corrupt PNG");
    if (c.length > 256 * 3) return stbi__err("invalid PLTE", "Corrupt PNG");

    pal_len = c.length / 3;
    if (pal_len * 3 != c.length) return stbi__err("invalid PLTE",
"Corrupt PNG");

    for (i = 0; i < pal_len; ++i) {
        palette[i * 4 + 0] = stbi__get8(s);
        palette[i * 4 + 1] = stbi__get8(s);
        palette[i * 4 + 2] = stbi__get8(s);
        palette[i * 4 + 3] = 255;
    }
    break;
}

case STBI_PNG_TYPE('t', 'R', 'N', 'S'): {
    if (first) return stbi__err("first not IHDR", "Corrupt PNG");
    if (z->idata) return stbi__err("tRNS after IDAT", "Corrupt PNG");

    if (pal_img_n) {
        if (scan == STBI__SCAN_header) { s->img_n = 4; return
1; }

        if (pal_len == 0) return stbi__err("tRNS before PLTE",
"Corrupt PNG");
        if (c.length > pal_len) return stbi__err("bad tRNS len
", "Corrupt PNG");

        pal_img_n = 4;
        for (i = 0; i < c.length; ++i)
            palette[i * 4 + 3] = stbi__get8(s);
    }
    else {
        if (!(s->img_n & 1)) return stbi__err("tRNS with alpha
", "Corrupt PNG");
        if (c.length != (stbi__uint32)s->img_n * 2) return stb
i__err("bad tRNS len", "Corrupt PNG");
        has_trans = 1;
        if (z->depth == 16) {
            for (k = 0; k < s->img_n; ++k) tc16[k] = (stbi_
__uint16)stbi__get16be(s); // copy the values as-is
        }
        else {
            for (k = 0; k < s->img_n; ++k) tc[k] = (stbi_u
c)(stbi__get16be(s) & 255) * stbi__depth_scale_table[z->depth]; // non 8-bit images wi
ll be larger
        }
    }
    break;
}

case STBI_PNG_TYPE('I', 'D', 'A', 'T'): {
    if (first) return stbi__err("first not IHDR", "Corrupt PNG");
    if (pal_img_n && !pal_len) return stbi__err("no PLTE", "Corrup
t PNG");

    if (scan == STBI__SCAN_header) { s->img_n = pal_img_n; return
1; }

    if ((int)(ioff + c.length) < (int)ioff) return 0;
    if (ioff + c.length > idata_limit) {
        stbi__uint32 idata_limit_old = idata_limit;
        stbi_uc *p;
        if (idata_limit == 0) idata_limit = c.length > 4096 ?
c.length : 4096;
        while (ioff + c.length > idata_limit)
            idata_limit *= 2;
    }
}

```



```

        STBI_NOTUSED(idata_limit_old);
        p = (stbi_uc *)STBI_REALLOC_SIZED(z->idata, idata_limit_
t_old, idata_limit); if (p == NULL) return stbi__err("outofmem", "Out of memory");
        z->idata = p;
    }
    if (!stbi__getn(s, z->idata + ioff, c.length)) return stbi__er
r("outofdata", "Corrupt PNG");
    ioff += c.length;
    break;
}

case STBI__PNG_TYPE('I', 'E', 'N', 'D'): {
    stbi__uint32 raw_len, bpl;
    if (first) return stbi__err("first not IHDR", "Corrupt PNG");
    if (scan != STBI__SCAN_load) return 1;
    if (z->idata == NULL) return stbi__err("no IDAT", "Corrupt PNG
");
    // initial guess for decoded data size to avoid unnecessary re
allocs
    bpl = (s->img_x * z->depth + 7) / 8; // bytes per line, per co
mponent
    raw_len = bpl * s->img_y * s->img_n /* pixels */ + s->img_y /*
filter mode per row */;
    z->expanded = (stbi_uc *)stbi_zlib_decode_malloc_guesssize_he
derflag((char *)z->idata, ioff, raw_len, (int *)&raw_len, !is_iphone);
    if (z->expanded == NULL) return 0; // zlib should set error
    STBI_FREE(z->idata); z->idata = NULL;
    if ((req_comp == s->img_n + 1 && req_comp != 3 && !pal_img_n)
|| has_trans)
        s->img_out_n = s->img_n + 1;
    else
        s->img_out_n = s->img_n;
    if (!stbi__create_png_image(z, z->expanded, raw_len, s->img_ou
t_n, z->depth, color, interlace)) return 0;
    if (has_trans) {
        if (z->depth == 16) {
            if (!stbi__compute_transparency16(z, tc16, s->
img_out_n)) return 0;
        }
        else {
            if (!stbi__compute_transparency(z, tc, s->img_
out_n)) return 0;
        }
    }
    if (is_iphone && stbi__de_iphone_flag && s->img_out_n > 2)
        stbi__de_iphone(z);
    if (pal_img_n) {
        // pal_img_n == 3 or 4
        s->img_n = pal_img_n; // record the actual colors we h
ad
        s->img_out_n = pal_img_n;
        if (req_comp >= 3) s->img_out_n = req_comp;
        if (!stbi__expand_png_palette(z, palette, pal_len, s->
img_out_n))
            return 0;
    }
    else if (has_trans) {
        // non-paletted image with tRNS -> source image has (c
onstant) alpha
        ++s->img_n;
    }
    STBI_FREE(z->expanded); z->expanded = NULL;
    return 1;
}

default:
    // if critical, fail
    if (first) return stbi__err("first not IHDR", "Corrupt PNG");
    if ((c.type & (1 << 29)) == 0) {

```

```

#ifdef STBI_NO_FAILURE_STRINGS
    // not threadsafe
    static char invalid_chunk[] = "XXXX PNG chunk not know
n";
    invalid_chunk[0] = STBI__BYTECAST(c.type >> 24);
    invalid_chunk[1] = STBI__BYTECAST(c.type >> 16);
    invalid_chunk[2] = STBI__BYTECAST(c.type >> 8);
    invalid_chunk[3] = STBI__BYTECAST(c.type >> 0);
#endif
    return stbi__err(invalid_chunk, "PNG not supported: un
known PNG chunk type");
}
    stbi__skip(s, c.length);
    break;
}
    // end of PNG chunk, read and skip CRC
    stbi__get32be(s);
}

static void *stbi__do_png(stbi__png *p, int *x, int *y, int *n, int req_comp, stbi__re
sult_info *ri)
{
    void *result = NULL;
    if (req_comp < 0 || req_comp > 4) return stbi__errpuc("bad req_comp", "Intern
al error");
    if (stbi__parse_png_file(p, STBI__SCAN_load, req_comp)) {
        if (p->depth < 8)
            ri->bits_per_channel = 8;
        else
            ri->bits_per_channel = p->depth;
        result = p->out;
        p->out = NULL;
        if (req_comp && req_comp != p->s->img_out_n) {
            if (ri->bits_per_channel == 8)
                result = stbi__convert_format((unsigned char *)result,
p->s->img_out_n, req_comp, p->s->img_x, p->s->img_y);
            else
                result = stbi__convert_format16((stbi__uint16 *)result
, p->s->img_out_n, req_comp, p->s->img_x, p->s->img_y);
            p->s->img_out_n = req_comp;
            if (result == NULL) return result;
        }
        *x = p->s->img_x;
        *y = p->s->img_y;
        if (n) *n = p->s->img_n;
    }
    STBI_FREE(p->out);    p->out = NULL;
    STBI_FREE(p->expanded); p->expanded = NULL;
    STBI_FREE(p->idata);    p->idata = NULL;

    return result;
}

static void *stbi__png_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
stbi__result_info *ri)
{
    stbi__png p;
    p.s = s;
    return stbi__do_png(&p, x, y, comp, req_comp, ri);
}

static int stbi__png_test(stbi__context *s)
{
    int r;
    r = stbi__check_png_header(s);
    stbi__rewind(s);
    return r;
}

```

```

static int stbi__png_info_raw(stbi__png *p, int *x, int *y, int *comp)
{
    if (!stbi__parse_png_file(p, STBI__SCAN_header, 0)) {
        stbi__rewind(p->s);
        return 0;
    }
    if (x) *x = p->s->img_x;
    if (y) *y = p->s->img_y;
    if (comp) *comp = p->s->img_n;
    return 1;
}

static int stbi__png_info(stbi__context *s, int *x, int *y, int *comp)
{
    stbi__png p;
    p.s = s;
    return stbi__png_info_raw(&p, x, y, comp);
}
#endif

// Microsoft/Windows BMP image

#ifdef STBI_NO_BMP
static int stbi__bmp_test_raw(stbi__context *s)
{
    int r;
    int sz;
    if (stbi__get8(s) != 'B') return 0;
    if (stbi__get8(s) != 'M') return 0;
    stbi__get32le(s); // discard filesize
    stbi__get16le(s); // discard reserved
    stbi__get16le(s); // discard reserved
    stbi__get32le(s); // discard data offset
    sz = stbi__get32le(s);
    r = (sz == 12 || sz == 40 || sz == 56 || sz == 108 || sz == 124);
    return r;
}

static int stbi__bmp_test(stbi__context *s)
{
    int r = stbi__bmp_test_raw(s);
    stbi__rewind(s);
    return r;
}

// returns 0..31 for the highest set bit
static int stbi__high_bit(unsigned int z)
{
    int n = 0;
    if (z == 0) return -1;
    if (z >= 0x10000) n += 16, z >>= 16;
    if (z >= 0x00100) n += 8, z >>= 8;
    if (z >= 0x00010) n += 4, z >>= 4;
    if (z >= 0x00004) n += 2, z >>= 2;
    if (z >= 0x00002) n += 1, z >>= 1;
    return n;
}

static int stbi__bitcount(unsigned int a)
{
    a = (a & 0x55555555) + ((a >> 1) & 0x55555555); // max 2
    a = (a & 0x33333333) + ((a >> 2) & 0x33333333); // max 4
    a = (a + (a >> 4)) & 0x0f0f0f0f; // max 8 per 4, now 8 bits
    a = (a + (a >> 8)); // max 16 per 8 bits
    a = (a + (a >> 16)); // max 32 per 8 bits
    return a & 0xff;
}

```

```

static int stbi__shiftsigned(int v, int shift, int bits)
{
    int result;
    int z = 0;

    if (shift < 0) v <<= -shift;
    else v >>= shift;
    result = v;

    z = bits;
    while (z < 8) {
        result += v >> z;
        z += bits;
    }
    return result;
}

typedef struct
{
    int bpp, offset, hsz;
    unsigned int mr, mg, mb, ma, all_a;
} stbi__bmp_data;

static void *stbi__bmp_parse_header(stbi__context *s, stbi__bmp_data *info)
{
    int hsz;
    if (stbi__get8(s) != 'B' || stbi__get8(s) != 'M') return stbi__errpuc("not BMP", "Corrupt BMP");
    stbi__get32le(s); // discard filesize
    stbi__get16le(s); // discard reserved
    stbi__get16le(s); // discard reserved
    info->offset = stbi__get32le(s);
    info->hsz = hsz = stbi__get32le(s);
    info->mr = info->mg = info->mb = info->ma = 0;

    if (hsz != 12 && hsz != 40 && hsz != 56 && hsz != 108 && hsz != 124) return stbi__errpuc("unknown BMP", "BMP type not supported: unknown");
    if (hsz == 12) {
        s->img_x = stbi__get16le(s);
        s->img_y = stbi__get16le(s);
    }
    else {
        s->img_x = stbi__get32le(s);
        s->img_y = stbi__get32le(s);
    }
    if (stbi__get16le(s) != 1) return stbi__errpuc("bad BMP", "bad BMP");
    info->bpp = stbi__get16le(s);
    if (info->bpp == 1) return stbi__errpuc("monochrome", "BMP type not supported: 1-bit");
    if (hsz != 12) {
        int compress = stbi__get32le(s);
        if (compress == 1 || compress == 2) return stbi__errpuc("BMP RLE", "BMP type not supported: RLE");
        stbi__get32le(s); // discard sizeof
        stbi__get32le(s); // discard hres
        stbi__get32le(s); // discard vres
        stbi__get32le(s); // discard colorsused
        stbi__get32le(s); // discard max important
        if (hsz == 40 || hsz == 56) {
            if (hsz == 56) {
                stbi__get32le(s);
                stbi__get32le(s);
                stbi__get32le(s);
                stbi__get32le(s);
            }
            if (info->bpp == 16 || info->bpp == 32) {
                if (compress == 0) {
                    if (info->bpp == 32) {

```

```

        info->mr = 0xffu << 16;
        info->mg = 0xffu << 8;
        info->mb = 0xffu << 0;
        info->ma = 0xffu << 24;
        info->all_a = 0; // if all_a is 0 at e
nd, then we loaded alpha channel but it was all 0
    }
    else {
        info->mr = 31u << 10;
        info->mg = 31u << 5;
        info->mb = 31u << 0;
    }
}
else if (compress == 3) {
    info->mr = stbi__get32le(s);
    info->mg = stbi__get32le(s);
    info->mb = stbi__get32le(s);
    // not documented, but generated by photoshop
and handled by mspaint
    if (info->mr == info->mg && info->mg == info->
mb) {
        // !?!?!?
        return stbi__errpuc("bad BMP", "bad BM
P");
    }
}
else
    return stbi__errpuc("bad BMP", "bad BMP");
}
}
else {
    int i;
    if (hsz != 108 && hsz != 124)
        return stbi__errpuc("bad BMP", "bad BMP");
    info->mr = stbi__get32le(s);
    info->mg = stbi__get32le(s);
    info->mb = stbi__get32le(s);
    info->ma = stbi__get32le(s);
    stbi__get32le(s); // discard color space
    for (i = 0; i < 12; ++i)
        stbi__get32le(s); // discard color space parameters
    if (hsz == 124) {
        stbi__get32le(s); // discard rendering intent
        stbi__get32le(s); // discard offset of profile data
        stbi__get32le(s); // discard size of profile data
        stbi__get32le(s); // discard reserved
    }
}
}
return (void *)1;
}

static void *stbi__bmp_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
stbi__result_info *ri)
{
    stbi_uc *out;
    unsigned int mr = 0, mg = 0, mb = 0, ma = 0, all_a;
    stbi_uc pal[256][4];
    int psize = 0, i, j, width;
    int flip_vertically, pad, target;
    stbi__bmp_data info;
    STBI_NOTUSED(ri);

    info.all_a = 255;
    if (stbi__bmp_parse_header(s, &info) == NULL)
        return NULL; // error code already set

    flip_vertically = ((int)s->img_y) > 0;

```

```

s->img_y = abs((int)s->img_y);

mr = info.mr;
mg = info.mg;
mb = info.mb;
ma = info.ma;
all_a = info.all_a;

if (info.hsz == 12) {
    if (info.bpp < 24)
        psize = (info.offset - 14 - 24) / 3;
}
else {
    if (info.bpp < 16)
        psize = (info.offset - 14 - info.hsz) >> 2;
}

s->img_n = ma ? 4 : 3;
if (req_comp && req_comp >= 3) // we can directly decode 3 or 4
    target = req_comp;
else
    target = s->img_n; // if they want monochrome, we'll post-convert

// sanity-check size
if (!stbi__mad3sizes_valid(target, s->img_x, s->img_y, 0))
    return stbi__errpuc("too large", "Corrupt BMP");

out = (stbi_uc *)stbi__malloc_mad3(target, s->img_x, s->img_y, 0);
if (!out) return stbi__errpuc("outofmem", "Out of memory");
if (info.bpp < 16) {
    int z = 0;
    if (psize == 0 || psize > 256) { STBI_FREE(out); return stbi__errpuc("
invalid", "Corrupt BMP"); }
    for (i = 0; i < psize; ++i) {
        pal[i][2] = stbi__get8(s);
        pal[i][1] = stbi__get8(s);
        pal[i][0] = stbi__get8(s);
        if (info.hsz != 12) stbi__get8(s);
        pal[i][3] = 255;
    }
    stbi__skip(s, info.offset - 14 - info.hsz - psize * (info.hsz == 12 ?
3 : 4));
    if (info.bpp == 4) width = (s->img_x + 1) >> 1;
    else if (info.bpp == 8) width = s->img_x;
    else { STBI_FREE(out); return stbi__errpuc("bad bpp", "Corrupt BMP"); }
}

pad = (-width) & 3;
for (j = 0; j < (int)s->img_y; ++j) {
    for (i = 0; i < (int)s->img_x; i += 2) {
        int v = stbi__get8(s), v2 = 0;
        if (info.bpp == 4) {
            v2 = v & 15;
            v >>= 4;
        }
        out[z++] = pal[v][0];
        out[z++] = pal[v][1];
        out[z++] = pal[v][2];
        if (target == 4) out[z++] = 255;
        if (i + 1 == (int)s->img_x) break;
        v = (info.bpp == 8) ? stbi__get8(s) : v2;
        out[z++] = pal[v][0];
        out[z++] = pal[v][1];
        out[z++] = pal[v][2];
        if (target == 4) out[z++] = 255;
    }
    stbi__skip(s, pad);
}
}
else {

```

```

    int rshift = 0, gshift = 0, bshift = 0, ashift = 0, rcount = 0, gcount
= 0, bcount = 0, acount = 0;
    int z = 0;
    int easy = 0;
    stbi__skip(s, info.offset - 14 - info.hsz);
    if (info.bpp == 24) width = 3 * s->img_x;
    else if (info.bpp == 16) width = 2 * s->img_x;
    else /* bpp = 32 and pad = 0 */ width = 0;
    pad = (-width) & 3;
    if (info.bpp == 24) {
        easy = 1;
    }
    else if (info.bpp == 32) {
        if (mb == 0xff && mg == 0xff00 && mr == 0x00ff0000 && ma == 0x
ff000000)
            easy = 2;
    }
    if (!easy) {
        if (!mr || !mg || !mb) { STBI_FREE(out); return stbi__errpuc("
bad masks", "Corrupt BMP"); }
        // right shift amt to put high bit in position #7
        rshift = stbi__high_bit(mr) - 7; rcount = stbi__bitcount(mr);
        gshift = stbi__high_bit(mg) - 7; gcount = stbi__bitcount(mg);
        bshift = stbi__high_bit(mb) - 7; bcount = stbi__bitcount(mb);
        ashift = stbi__high_bit(ma) - 7; acount = stbi__bitcount(ma);
    }
    for (j = 0; j < (int)s->img_y; ++j) {
        if (easy) {
            for (i = 0; i < (int)s->img_x; ++i) {
                unsigned char a;
                out[z + 2] = stbi__get8(s);
                out[z + 1] = stbi__get8(s);
                out[z + 0] = stbi__get8(s);
                z += 3;
                a = (easy == 2 ? stbi__get8(s) : 255);
                all_a |= a;
                if (target == 4) out[z++] = a;
            }
        }
        else {
            int bpp = info.bpp;
            for (i = 0; i < (int)s->img_x; ++i) {
                stbi__uint32 v = (bpp == 16 ? (stbi__uint32)st
bi__get16le(s) : stbi__get32le(s));
                int a;
                out[z++] = STBI__BYTECAST(stbi__shiftsigned(v
& mr, rshift, rcount));
                out[z++] = STBI__BYTECAST(stbi__shiftsigned(v
& mg, gshift, gcount));
                out[z++] = STBI__BYTECAST(stbi__shiftsigned(v
& mb, bshift, bcount));
                a = (ma ? stbi__shiftsigned(v & ma, ashift, ac
ount) : 255);
                all_a |= a;
                if (target == 4) out[z++] = STBI__BYTECAST(a);
            }
            stbi__skip(s, pad);
        }
    }

    // if alpha channel is all 0s, replace with all 255s
    if (target == 4 && all_a == 0)
        for (i = 4 * s->img_x*s->img_y - 1; i >= 0; i -= 4)
            out[i] = 255;

    if (flip_vertically) {
        stbi_uc t;
        for (j = 0; j < (int)s->img_y >> 1; ++j) {

```

```

        stbi_uc *p1 = out + j      *s->img_x*target;
        stbi_uc *p2 = out + (s->img_y - 1 - j)*s->img_x*target;
        for (i = 0; i < (int)s->img_x*target; ++i) {
            t = p1[i], p1[i] = p2[i], p2[i] = t;
        }
    }
}

if (req_comp && req_comp != target) {
    out = stbi__convert_format(out, target, req_comp, s->img_x, s->img_y);
    if (out == NULL) return out; // stbi__convert_format frees input on fa
ilure
}

*x = s->img_x;
*y = s->img_y;
if (comp) *comp = s->img_n;
return out;
}
#endif

// Targa Truevision - TGA
// by Jonathan Dummer
#ifndef STBI_NO_TGA
// returns STBI_rgb or whatever, 0 on error
static int stbi__tga_get_comp(int bits_per_pixel, int is_grey, int* is_rgb16)
{
    // only RGB or RGBA (incl. 16bit) or grey allowed
    if (is_rgb16) *is_rgb16 = 0;
    switch (bits_per_pixel) {
        case 8:  return STBI_grey;
        case 16: if (is_grey) return STBI_grey_alpha;
                // else: fall-through
        case 15: if (is_rgb16) *is_rgb16 = 1;
                return STBI_rgb;
        case 24: // fall-through
        case 32: return bits_per_pixel / 8;
        default: return 0;
    }
}

static int stbi__tga_info(stbi__context *s, int *x, int *y, int *comp)
{
    int tga_w, tga_h, tga_comp, tga_image_type, tga_bits_per_pixel, tga_colormap_b
pp;
    int sz, tga_colormap_type;
    stbi__get8(s); // discard Offset
    tga_colormap_type = stbi__get8(s); // colormap type
    if (tga_colormap_type > 1) {
        stbi__rewind(s);
        return 0; // only RGB or indexed allowed
    }
    tga_image_type = stbi__get8(s); // image type
    if (tga_colormap_type == 1) { // colormapped (paletted) image
        if (tga_image_type != 1 && tga_image_type != 9) {
            stbi__rewind(s);
            return 0;
        }
        stbi__skip(s, 4); // skip index of first colormap entry and numb
er of entries
        sz = stbi__get8(s); // check bits per palette color entry
        if ((sz != 8) && (sz != 15) && (sz != 16) && (sz != 24) && (sz != 32))
        {
            stbi__rewind(s);
            return 0;
        }
        stbi__skip(s, 4); // skip image x and y origin
        tga_colormap_bpp = sz;
    }
}

```



```

    else { // "normal" image w/o colormap - only RGB or grey allowed, +/- RLE
        if ((tga_image_type != 2) && (tga_image_type != 3) && (tga_image_type
!= 10) && (tga_image_type != 11)) {
            stbi__rewind(s);
            return 0; // only RGB or grey allowed, +/- RLE
        }
        stbi__skip(s, 9); // skip colormap specification and image x/y origin
        tga_colormap_bpp = 0;
    }
    tga_w = stbi__get16le(s);
    if (tga_w < 1) {
        stbi__rewind(s);
        return 0; // test width
    }
    tga_h = stbi__get16le(s);
    if (tga_h < 1) {
        stbi__rewind(s);
        return 0; // test height
    }
    tga_bits_per_pixel = stbi__get8(s); // bits per pixel
    stbi__get8(s); // ignore alpha bits
    if (tga_colormap_bpp != 0) {
        if ((tga_bits_per_pixel != 8) && (tga_bits_per_pixel != 16)) {
            // when using a colormap, tga_bits_per_pixel is the size of th
e indexes
            // I don't think anything but 8 or 16bit indexes makes sense
            stbi__rewind(s);
            return 0;
        }
        tga_comp = stbi__tga_get_comp(tga_colormap_bpp, 0, NULL);
    }
    else {
        tga_comp = stbi__tga_get_comp(tga_bits_per_pixel, (tga_image_type == 3
) || (tga_image_type == 11), NULL);
    }
    if (!tga_comp) {
        stbi__rewind(s);
        return 0;
    }
    if (x) *x = tga_w;
    if (y) *y = tga_h;
    if (comp) *comp = tga_comp;
    return 1; // seems to have passed everything
}

static int stbi__tga_test(stbi__context *s)
{
    int res = 0;
    int sz, tga_color_type;
    stbi__get8(s); // discard Offset
    tga_color_type = stbi__get8(s); // color type
    if (tga_color_type > 1) goto errorEnd; // only RGB or indexed allowed
    sz = stbi__get8(s); // image type
    if (tga_color_type == 1) { // colormapped (paletted) image
        if (sz != 1 && sz != 9) goto errorEnd; // colortype 1 demands image ty
pe 1 or 9
        stbi__skip(s, 4); // skip index of first colormap entry and numb
er of entries
        sz = stbi__get8(s); // check bits per palette color entry
        if ((sz != 8) && (sz != 15) && (sz != 16) && (sz != 24) && (sz != 32))
goto errorEnd;
        stbi__skip(s, 4); // skip image x and y origin
    }
    else { // "normal" image w/o colormap
        if ((sz != 2) && (sz != 3) && (sz != 10) && (sz != 11)) goto errorEnd;
        // only RGB or grey allowed, +/- RLE
        stbi__skip(s, 9); // skip colormap specification and image x/y origin
    }
    if (stbi__get16le(s) < 1) goto errorEnd; // test width
}

```

```

    if (stbi__get16le(s) < 1) goto errorEnd;        // test height
    sz = stbi__get8(s); // bits per pixel
    if ((tga_color_type == 1) && (sz != 8) && (sz != 16)) goto errorEnd; // for co
lormapped images, bpp is size of an index
    if ((sz != 8) && (sz != 15) && (sz != 16) && (sz != 24) && (sz != 32)) goto er
rorEnd;

    res = 1; // if we got this far, everything's good and we can return 1 instead
of 0

errorEnd:
    stbi__rewind(s);
    return res;
}

// read 16bit value and convert to 24bit RGB
static void stbi__tga_read_rgb16(stbi__context *s, stbi_uc* out)
{
    stbi__uint16 px = (stbi__uint16)stbi__get16le(s);
    stbi__uint16 fiveBitMask = 31;
    // we have 3 channels with 5bits each
    int r = (px >> 10) & fiveBitMask;
    int g = (px >> 5) & fiveBitMask;
    int b = px & fiveBitMask;
    // Note that this saves the data in RGB(A) order, so it doesn't need to be swa
pped later
    out[0] = (stbi_uc)((r * 255) / 31);
    out[1] = (stbi_uc)((g * 255) / 31);
    out[2] = (stbi_uc)((b * 255) / 31);

    // some people claim that the most significant bit might be used for alpha
    // (possibly if an alpha-bit is set in the "image descriptor byte")
    // but that only made 16bit test images completely translucent..
    // so let's treat all 15 and 16bit TGAs as RGB with no alpha.
}

static void *stbi__tga_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
stbi__result_info *ri)
{
    // read in the TGA header stuff
    int tga_offset = stbi__get8(s);
    int tga_indexed = stbi__get8(s);
    int tga_image_type = stbi__get8(s);
    int tga_is_RLE = 0;
    int tga_palette_start = stbi__get16le(s);
    int tga_palette_len = stbi__get16le(s);
    int tga_palette_bits = stbi__get8(s);
    int tga_x_origin = stbi__get16le(s);
    int tga_y_origin = stbi__get16le(s);
    int tga_width = stbi__get16le(s);
    int tga_height = stbi__get16le(s);
    int tga_bits_per_pixel = stbi__get8(s);
    int tga_comp, tga_rgb16 = 0;
    int tga_inverted = stbi__get8(s);
    // int tga_alpha_bits = tga_inverted & 15; // the 4 lowest bits - unused (usel
ess?)

    // image data
    unsigned char *tga_data;
    unsigned char *tga_palette = NULL;
    int i, j;
    unsigned char raw_data[4] = { 0 };
    int RLE_count = 0;
    int RLE_repeating = 0;
    int read_next_pixel = 1;
    STBI_NOTUSED(ri);

    // do a tiny bit of preprocessing
    if (tga_image_type >= 8)
    {

```

```

        tga_image_type -= 8;
        tga_is_RLE = 1;
    }
    tga_inverted = 1 - ((tga_inverted >> 5) & 1);

    // If I'm paletted, then I'll use the number of bits from the palette
    if (tga_indexed) tga_comp = stbi__tga_get_comp(tga_palette_bits, 0, &tga_rgb16
);
    else tga_comp = stbi__tga_get_comp(tga_bits_per_pixel, (tga_image_type == 3),
&tga_rgb16);

    if (!tga_comp) // shouldn't really happen, stbi__tga_test() should have ensure
d basic consistency
        return stbi__errpuc("bad format", "Can't find out TGA pixelformat");

    // tga info
    *x = tga_width;
    *y = tga_height;
    if (comp) *comp = tga_comp;

    if (!stbi__mad3sizes_valid(tga_width, tga_height, tga_comp, 0))
        return stbi__errpuc("too large", "Corrupt TGA");

    tga_data = (unsigned char*)stbi__malloc_mad3(tga_width, tga_height, tga_comp,
0);
    if (!tga_data) return stbi__errpuc("outofmem", "Out of memory");

    // skip to the data's starting position (offset usually = 0)
    stbi__skip(s, tga_offset);

    if (!tga_indexed && !tga_is_RLE && !tga_rgb16) {
        for (i = 0; i < tga_height; ++i) {
            int row = tga_inverted ? tga_height - i - 1 : i;
            stbi_uc *tga_row = tga_data + row*tga_width*tga_comp;
            stbi__getn(s, tga_row, tga_width * tga_comp);
        }
    }
    else {
        // do I need to load a palette?
        if (tga_indexed)
        {
            // any data to skip? (offset usually = 0)
            stbi__skip(s, tga_palette_start);
            // load the palette
            tga_palette = (unsigned char*)stbi__malloc_mad2(tga_palette_le
n, tga_comp, 0);

            if (!tga_palette) {
                STBI_FREE(tga_data);
                return stbi__errpuc("outofmem", "Out of memory");
            }
            if (tga_rgb16) {
                stbi_uc *pal_entry = tga_palette;
                STBI_ASSERT(tga_comp == STBI_rgb);
                for (i = 0; i < tga_palette_len; ++i) {
                    stbi__tga_read_rgb16(s, pal_entry);
                    pal_entry += tga_comp;
                }
            }
            else if (!stbi__getn(s, tga_palette, tga_palette_len * tga_com
p)) {
                STBI_FREE(tga_data);
                STBI_FREE(tga_palette);
                return stbi__errpuc("bad palette", "Corrupt TGA");
            }
        }
        // load the data
        for (i = 0; i < tga_width * tga_height; ++i)
        {
            // if I'm in RLE mode, do I need to get a RLE stbi__pngchunk

```

?

```

if (tga_is_RLE)
{
    if (RLE_count == 0)
    {
        // yep, get the next byte as a RLE command
        int RLE_cmd = stbi__get8(s);
        RLE_count = 1 + (RLE_cmd & 127);
        RLE_repeating = RLE_cmd >> 7;
        read_next_pixel = 1;
    }
    else if (!RLE_repeating)
    {
        read_next_pixel = 1;
    }
}
else
{
    read_next_pixel = 1;
}
// OK, if I need to read a pixel, do it now
if (read_next_pixel)
{
    // load however much data we did have
    if (tga_indexed)
    {
        // read in index, then perform the lookup
        int pal_idx = (tga_bits_per_pixel == 8) ? stbi
__get8(s) : stbi__get16le(s);
        if (pal_idx >= tga_palette_len) {
            // invalid index
            pal_idx = 0;
        }
        pal_idx *= tga_comp;
        for (j = 0; j < tga_comp; ++j) {
            raw_data[j] = tga_palette[pal_idx + j]
;
        }
    }
    else if (tga_rgb16) {
        STBI_ASSERT(tga_comp == STBI_rgb);
        stbi__tga_read_rgb16(s, raw_data);
    }
    else {
        // read in the data row
        for (j = 0; j < tga_comp; ++j) {
            raw_data[j] = stbi__get8(s);
        }
    }
    // clear the reading flag for the next pixel
    read_next_pixel = 0;
} // end of reading a pixel

// copy data
for (j = 0; j < tga_comp; ++j)
    tga_data[i*tga_comp + j] = raw_data[j];

// in case we're in RLE mode, keep counting down
--RLE_count;
}
// do I need to invert the image?
if (tga_inverted)
{
    for (j = 0; j * 2 < tga_height; ++j)
    {
        int index1 = j * tga_width * tga_comp;
        int index2 = (tga_height - 1 - j) * tga_width * tga_co
mp;
        for (i = tga_width * tga_comp; i > 0; --i)

```

```

        {
            unsigned char temp = tga_data[index1];
            tga_data[index1] = tga_data[index2];
            tga_data[index2] = temp;
            ++index1;
            ++index2;
        }
    }
    // clear my palette, if I had one
    if (tga_palette != NULL)
    {
        STBI_FREE(tga_palette);
    }
}

// swap RGB - if the source data was RGB16, it already is in the right order
if (tga_comp >= 3 && !tga_rgb16)
{
    unsigned char* tga_pixel = tga_data;
    for (i = 0; i < tga_width * tga_height; ++i)
    {
        unsigned char temp = tga_pixel[0];
        tga_pixel[0] = tga_pixel[2];
        tga_pixel[2] = temp;
        tga_pixel += tga_comp;
    }
}

// convert to target component count
if (req_comp && req_comp != tga_comp)
    tga_data = stbi__convert_format(tga_data, tga_comp, req_comp, tga_widt
h, tga_height);

// the things I do to get rid of an error message, and yet keep
// Microsoft's C compilers happy... [8^(
tga_palette_start = tga_palette_len = tga_palette_bits =
    tga_x_origin = tga_y_origin = 0;
// OK, done
return tga_data;
}
#endif

// *****
// Photoshop PSD loader -- PD by Thatcher Ulrich, integration by Nicolas Schulz, tweak
ed by STB

#ifndef STBI_NO_PSD
static int stbi__psd_test(stbi__context *s)
{
    int r = (stbi__get32be(s) == 0x38425053);
    stbi__rewind(s);
    return r;
}

static int stbi__psd_decode_rle(stbi__context *s, stbi_uc *p, int pixelCount)
{
    int count, nleft, len;

    count = 0;
    while ((nleft = pixelCount - count) > 0) {
        len = stbi__get8(s);
        if (len == 128) {
            // No-op.
        }
        else if (len < 128) {
            // Copy next len+1 bytes literally.
            len++;

```

```

        if (len > nleft) return 0; // corrupt data
        count += len;
        while (len) {
            *p = stbi__get8(s);
            p += 4;
            len--;
        }
    }
    else if (len > 128) {
        stbi_uc val;
        // Next -len+1 bytes in the dest are replicated from next source
        // byte.
        // (Interpret len as a negative 8-bit int.)
        len = 257 - len;
        if (len > nleft) return 0; // corrupt data
        val = stbi__get8(s);
        count += len;
        while (len) {
            *p = val;
            p += 4;
            len--;
        }
    }
}

return 1;
}

static void *stbi__psd_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
    stbi__result_info *ri, int bpc)
{
    int pixelCount;
    int channelCount, compression;
    int channel, i;
    int bitdepth;
    int w, h;
    stbi_uc *out;
    STBI_NOTUSED(ri);

    // Check identifier
    if (stbi__get32be(s) != 0x38425053) // "8BPS"
        return stbi__errpuc("not PSD", "Corrupt PSD image");

    // Check file type version.
    if (stbi__get16be(s) != 1)
        return stbi__errpuc("wrong version", "Unsupported version of PSD image");

    // Skip 6 reserved bytes.
    stbi__skip(s, 6);

    // Read the number of channels (R, G, B, A, etc).
    channelCount = stbi__get16be(s);
    if (channelCount < 0 || channelCount > 16)
        return stbi__errpuc("wrong channel count", "Unsupported number of channels in PSD image");

    // Read the rows and columns of the image.
    h = stbi__get32be(s);
    w = stbi__get32be(s);

    // Make sure the depth is 8 bits.
    bitdepth = stbi__get16be(s);
    if (bitdepth != 8 && bitdepth != 16)
        return stbi__errpuc("unsupported bit depth", "PSD bit depth is not 8 or 16 bit");

    // Make sure the color mode is RGB.
    // Valid options are:

```

```

// 0: Bitmap
// 1: Grayscale
// 2: Indexed color
// 3: RGB color
// 4: CMYK color
// 7: Multichannel
// 8: Duotone
// 9: Lab color
if (stbi__get16be(s) != 3)
    return stbi__errpuc("wrong color format", "PSD is not in RGB color for
mat");

// Skip the Mode Data. (It's the palette for indexed color; other info for ot
her modes.)
stbi__skip(s, stbi__get32be(s));

// Skip the image resources. (resolution, pen tool paths, etc)
stbi__skip(s, stbi__get32be(s));

// Skip the reserved data.
stbi__skip(s, stbi__get32be(s));

// Find out if the data is compressed.
// Known values:
// 0: no compression
// 1: RLE compressed
compression = stbi__get16be(s);
if (compression > 1)
    return stbi__errpuc("bad compression", "PSD has an unknown compression
format");

// Check size
if (!stbi__mad3sizes_valid(4, w, h, 0))
    return stbi__errpuc("too large", "Corrupt PSD");

// Create the destination image.

if (!compression && bitdepth == 16 && bpc == 16) {
    out = (stbi_uc *)stbi__malloc_mad3(8, w, h, 0);
    ri->bits_per_channel = 16;
}
else
    out = (stbi_uc *)stbi__malloc(4 * w*h);

if (!out) return stbi__errpuc("outofmem", "Out of memory");
pixelCount = w*h;

// Initialize the data to zero.
//memset( out, 0, pixelCount * 4 );

// Finally, the image data.
if (compression) {
    // RLE as used by .PSD and .TIFF
    // Loop until you get the number of unpacked bytes you are expecting:
    //     Read the next source byte into n.
    //     If n is between 0 and 127 inclusive, copy the next n+1 bytes li
terally.
    //     Else if n is between -127 and -1 inclusive, copy the next byte
-n+1 times.
    //     Else if n is 128, noop.
    // Endloop

    // The RLE-compressed data is preceded by a 2-byte data count for eac
h row in the data,
    // which we're going to just skip.
    stbi__skip(s, h * channelCount * 2);

    // Read the RLE data by channel.
    for (channel = 0; channel < 4; channel++) {

```

```

    stbi_uc *p;

    p = out + channel;
    if (channel >= channelCount) {
        // Fill this channel with default data.
        for (i = 0; i < pixelCount; i++, p += 4)
            *p = (channel == 3 ? 255 : 0);
    }
    else {
        // Read the RLE data.
        if (!stbi__psd_decode_rle(s, p, pixelCount)) {
            STBI_FREE(out);
            return stbi__errpuc("corrupt", "bad RLE data")
;
        }
    }
}
else {
    // We're at the raw image data.  It's each channel in order (Red, Gree
n, Blue, Alpha, ...)
    // where each channel consists of an 8-bit (or 16-bit) value for each
pixel in the image.

    // Read the data by channel.
    for (channel = 0; channel < 4; channel++) {
        if (channel >= channelCount) {
            // Fill this channel with default data.
            if (bitdepth == 16 && bpc == 16) {
                stbi__uint16 *q = ((stbi__uint16 *)out) + chan
nel;

                stbi__uint16 val = channel == 3 ? 65535 : 0;
                for (i = 0; i < pixelCount; i++, q += 4)
                    *q = val;
            }
            else {
                stbi_uc *p = out + channel;
                stbi_uc val = channel == 3 ? 255 : 0;
                for (i = 0; i < pixelCount; i++, p += 4)
                    *p = val;
            }
        }
        else {
            if (ri->bits_per_channel == 16) { // output bpc
                stbi__uint16 *q = ((stbi__uint16 *)out) + chan
nel;

                for (i = 0; i < pixelCount; i++, q += 4)
                    *q = (stbi__uint16)stbi__get16be(s);
            }
            else {
                stbi_uc *p = out + channel;
                if (bitdepth == 16) { // input bpc
                    for (i = 0; i < pixelCount; i++, p +=
4)
                        *p = (stbi_uc)(stbi__get16be(s
) >> 8);
                }
                else {
                    for (i = 0; i < pixelCount; i++, p +=
4)
                        *p = stbi__get8(s);
                }
            }
        }
    }
}

// remove weird white matte from PSD

```



```

    if (channelCount >= 4) {
        if (ri->bits_per_channel == 16) {
            for (i = 0; i < w*h; ++i) {
                stbi_uint16 *pixel = (stbi_uint16 *)out + 4 * i;
                if (pixel[3] != 0 && pixel[3] != 65535) {
                    float a = pixel[3] / 65535.0f;
                    float ra = 1.0f / a;
                    float inv_a = 65535.0f * (1 - ra);
                    pixel[0] = (stbi_uint16)(pixel[0] * ra + inv_
a);
                    pixel[1] = (stbi_uint16)(pixel[1] * ra + inv_
a);
                    pixel[2] = (stbi_uint16)(pixel[2] * ra + inv_
a);
                }
            }
        }
        else {
            for (i = 0; i < w*h; ++i) {
                unsigned char *pixel = out + 4 * i;
                if (pixel[3] != 0 && pixel[3] != 255) {
                    float a = pixel[3] / 255.0f;
                    float ra = 1.0f / a;
                    float inv_a = 255.0f * (1 - ra);
                    pixel[0] = (unsigned char)(pixel[0] * ra + inv
_a);
                    pixel[1] = (unsigned char)(pixel[1] * ra + inv
_a);
                    pixel[2] = (unsigned char)(pixel[2] * ra + inv
_a);
                }
            }
        }
    }

    // convert to desired output format
    if (req_comp && req_comp != 4) {
        if (ri->bits_per_channel == 16)
            out = (stbi_uc *)stbi__convert_format16((stbi_uint16 *)out, 4
, req_comp, w, h);
        else
            out = stbi__convert_format(out, 4, req_comp, w, h);
        if (out == NULL) return out; // stbi__convert_format frees input on fa
ilure
    }

    if (comp) *comp = 4;
    *y = h;
    *x = w;

    return out;
}
#endif

// *****
// *****
// Softimage PIC loader
// by Tom Seddon
//
// See http://softimage.wiki.softimage.com/index.php/INFO:_PIC_file_format
// See http://ozviz.wasp.uwa.edu.au/~pbourke/dataformats/softimagepic/

#ifdef STBI_NO_PIC
static int stbi__pic_is4(stbi__context *s, const char *str)
{
    int i;
    for (i = 0; i < 4; ++i)
        if (stbi__get8(s) != (stbi_uc)str[i])
            return 0;
}

```

```

        return 1;
    }

static int stbi__pic_test_core(stbi__context *s)
{
    int i;

    if (!stbi__pic_is4(s, "\x53\x80\xF6\x34"))
        return 0;

    for (i = 0; i<84; ++i)
        stbi__get8(s);

    if (!stbi__pic_is4(s, "PICT"))
        return 0;

    return 1;
}

typedef struct
{
    stbi_uc size, type, channel;
} stbi__pic_packet;

static stbi_uc *stbi__readval(stbi__context *s, int channel, stbi_uc *dest)
{
    int mask = 0x80, i;

    for (i = 0; i<4; ++i, mask >>= 1) {
        if (channel & mask) {
            if (stbi__at_eof(s)) return stbi__errpuc("bad file", "PIC file
too short");
            dest[i] = stbi__get8(s);
        }
    }

    return dest;
}

static void stbi__copyval(int channel, stbi_uc *dest, const stbi_uc *src)
{
    int mask = 0x80, i;

    for (i = 0; i<4; ++i, mask >>= 1)
        if (channel&mask)
            dest[i] = src[i];
}

static stbi_uc *stbi__pic_load_core(stbi__context *s, int width, int height, int *comp
, stbi_uc *result)
{
    int act_comp = 0, num_packets = 0, y, chained;
    stbi__pic_packet packets[10];

    // this will (should...) cater for even some bizarre stuff like having data
    // for the same channel in multiple packets.
    do {
        stbi__pic_packet *packet;

        if (num_packets == sizeof(packets) / sizeof(packets[0]))
            return stbi__errpuc("bad format", "too many packets");

        packet = &packets[num_packets++];

        chained = stbi__get8(s);
        packet->size = stbi__get8(s);
        packet->type = stbi__get8(s);
        packet->channel = stbi__get8(s);
    } while (chained & num_packets < sizeof(packets) / sizeof(packets[0]));
}

```



```

else
    count -= 127;
if (count > left)
    return stbi__errpuc("bad file"
, "scanline overrun");

value))

dest, value);

ad file", "scanline overrun");

channel, dest))

}
else { // Raw
    ++count;
    if (count>left) return stbi__errpuc("b

for (i = 0; i<count; ++i, dest += 4)
    if (!stbi__readval(s, packet->

return 0;

}
left -= count;

}
break;

}
}

}

return result;
}

static void *stbi__pic_load(stbi__context *s, int *px, int *py, int *comp, int req_com
p, stbi__result_info *ri)
{
    stbi_uc *result;
    int i, x, y, internal_comp;
    STBI_NOTUSED(ri);

    if (!comp) comp = &internal_comp;

    for (i = 0; i<92; ++i)
        stbi__get8(s);

    x = stbi__get16be(s);
    y = stbi__get16be(s);
    if (stbi__at_eof(s)) return stbi__errpuc("bad file", "file too short (pic hea
der)");
    if (!stbi__mad3sizes_valid(x, y, 4, 0)) return stbi__errpuc("too large", "PIC
image too large to decode");

    stbi__get32be(s); //skip `ratio'
    stbi__get16be(s); //skip `fields'
    stbi__get16be(s); //skip `pad'

                                // intermediate buffer is RGBA
    result = (stbi_uc *)stbi__malloc_mad3(x, y, 4, 0);
    memset(result, 0xff, x*y * 4);

    if (!stbi__pic_load_core(s, x, y, comp, result)) {
        STBI_FREE(result);
        result = 0;
    }
    *px = x;
    *py = y;
    if (req_comp == 0) req_comp = *comp;

```

```

        result = stbi__convert_format(result, 4, req_comp, x, y);

        return result;
    }

static int stbi__pic_test(stbi__context *s)
{
    int r = stbi__pic_test_core(s);
    stbi__rewind(s);
    return r;
}
#endif

// *****
// GIF loader -- public domain by Jean-Marc Lienher -- simplified/shrunk by stb

#ifndef STBI_NO_GIF
typedef struct
{
    stbi__int16 prefix;
    stbi_uc first;
    stbi_uc suffix;
} stbi__gif_lzw;

typedef struct
{
    int w, h;
    stbi_uc *out, *old_out;           // output buffer (always 4 components)
    int flags, bgindex, ratio, transparent, eflags, delay;
    stbi_uc pal[256][4];
    stbi_uc lpal[256][4];
    stbi__gif_lzw codes[4096];
    stbi_uc *color_table;
    int parse, step;
    int lflags;
    int start_x, start_y;
    int max_x, max_y;
    int cur_x, cur_y;
    int line_size;
} stbi__gif;

static int stbi__gif_test_raw(stbi__context *s)
{
    int sz;
    if (stbi__get8(s) != 'G' || stbi__get8(s) != 'I' || stbi__get8(s) != 'F' || st
bi__get8(s) != '8') return 0;
    sz = stbi__get8(s);
    if (sz != '9' && sz != '7') return 0;
    if (stbi__get8(s) != 'a') return 0;
    return 1;
}

static int stbi__gif_test(stbi__context *s)
{
    int r = stbi__gif_test_raw(s);
    stbi__rewind(s);
    return r;
}

static void stbi__gif_parse_colortable(stbi__context *s, stbi_uc pal[256][4], int num_
entries, int transp)
{
    int i;
    for (i = 0; i < num_entries; ++i) {
        pal[i][2] = stbi__get8(s);
        pal[i][1] = stbi__get8(s);
        pal[i][0] = stbi__get8(s);
        pal[i][3] = transp == i ? 0 : 255;
    }
}

```

```

    }
}

static int stbi__gif_header(stbi__context *s, stbi__gif *g, int *comp, int is_info)
{
    stbi_uc version;
    if (stbi__get8(s) != 'G' || stbi__get8(s) != 'I' || stbi__get8(s) != 'F' || st
bi__get8(s) != '8')
        return stbi__err("not GIF", "Corrupt GIF");

    version = stbi__get8(s);
    if (version != '7' && version != '9')    return stbi__err("not GIF", "Corrupt
GIF");
    if (stbi__get8(s) != 'a')                return stbi__err("not GIF", "Corrupt
GIF");

    stbi__g_failure_reason = "";
    g->w = stbi__get16le(s);
    g->h = stbi__get16le(s);
    g->flags = stbi__get8(s);
    g->bgindex = stbi__get8(s);
    g->ratio = stbi__get8(s);
    g->transparent = -1;

    if (comp != 0) *comp = 4; // can't actually tell whether it's 3 or 4 until we
parse the comments

    if (is_info) return 1;

    if (g->flags & 0x80)
        stbi__gif_parse_colortable(s, g->pal, 2 << (g->flags & 7), -1);

    return 1;
}

static int stbi__gif_info_raw(stbi__context *s, int *x, int *y, int *comp)
{
    stbi__gif* g = (stbi__gif*)stbi__malloc(sizeof(stbi__gif));
    if (!stbi__gif_header(s, g, comp, 1)) {
        STBI_FREE(g);
        stbi__rewind(s);
        return 0;
    }
    if (x) *x = g->w;
    if (y) *y = g->h;
    STBI_FREE(g);
    return 1;
}

static void stbi__out_gif_code(stbi__gif *g, stbi__uint16 code)
{
    stbi_uc *p, *c;

    // recurse to decode the prefixes, since the linked-list is backwards,
    // and working backwards through an interleaved image would be nasty
    if (g->codes[code].prefix >= 0)
        stbi__out_gif_code(g, g->codes[code].prefix);

    if (g->cur_y >= g->max_y) return;

    p = &g->out[g->cur_x + g->cur_y];
    c = &g->color_table[g->codes[code].suffix * 4];

    if (c[3] >= 128) {
        p[0] = c[2];
        p[1] = c[1];
        p[2] = c[0];
        p[3] = c[3];
    }
}

```

```

g->cur_x += 4;

if (g->cur_x >= g->max_x) {
    g->cur_x = g->start_x;
    g->cur_y += g->step;

    while (g->cur_y >= g->max_y && g->parse > 0) {
        g->step = (1 << g->parse) * g->line_size;
        g->cur_y = g->start_y + (g->step >> 1);
        --g->parse;
    }
}

static stbi_uc *stbi__process_gif_raster(stbi__context *s, stbi__gif *g)
{
    stbi_uc lzw_cs;
    stbi__int32 len, init_code;
    stbi__uint32 first;
    stbi__int32 codesize, codemask, avail, oldcode, bits, valid_bits, clear;
    stbi__gif_lzw *p;

    lzw_cs = stbi__get8(s);
    if (lzw_cs > 12) return NULL;
    clear = 1 << lzw_cs;
    first = 1;
    codesize = lzw_cs + 1;
    codemask = (1 << codesize) - 1;
    bits = 0;
    valid_bits = 0;
    for (init_code = 0; init_code < clear; init_code++) {
        g->codes[init_code].prefix = -1;
        g->codes[init_code].first = (stbi_uc)init_code;
        g->codes[init_code].suffix = (stbi_uc)init_code;
    }

    // support no starting clear code
    avail = clear + 2;
    oldcode = -1;

    len = 0;
    for (;;) {
        if (valid_bits < codesize) {
            if (len == 0) {
                len = stbi__get8(s); // start new block
                if (len == 0)
                    return g->out;
            }
            --len;
            bits |= (stbi__int32)stbi__get8(s) << valid_bits;
            valid_bits += 8;
        }
        else {
            stbi__int32 code = bits & codemask;
            bits >>= codesize;
            valid_bits -= codesize;
            // @OPTIMIZE: is there some way we can accelerate the non-clear
            r path?

            if (code == clear) { // clear code
                codesize = lzw_cs + 1;
                codemask = (1 << codesize) - 1;
                avail = clear + 2;
                oldcode = -1;
                first = 0;
            }
            else if (code == clear + 1) { // end of stream code
                stbi__skip(s, len);
                while ((len = stbi__get8(s)) > 0)
                    stbi__skip(s, len);
            }
        }
    }
}

```

```

        return g->out;
    }
    else if (code <= avail) {
        if (first) return stbi__errpuc("no clear code", "Corru
pt GIF");

        if (oldcode >= 0) {
            p = &g->codes[avail++];
            if (avail > 4096) return stbi__errpuc("
too many codes", "Corrupt GIF");

            p->prefix = (stbi__int16)oldcode;
            p->first = g->codes[oldcode].first;
            p->suffix = (code == avail) ? p->first : g->co
des[code].first;
        }
        else if (code == avail)
            return stbi__errpuc("illegal code in raster",
"Corrupt GIF");

        stbi__out_gif_code(g, (stbi__uint16)code);

        if ((avail & codemask) == 0 && avail <= 0x0FFF) {
            codesize++;
            codemask = (1 << codesize) - 1;
        }

        oldcode = code;
    }
    else {
        return stbi__errpuc("illegal code in raster", "Corrupt
GIF");
    }
}

static void stbi__fill_gif_background(stbi__gif *g, int x0, int y0, int x1, int y1)
{
    int x, y;
    stbi_uc *c = g->pal[g->bgindex];
    for (y = y0; y < y1; y += 4 * g->w) {
        for (x = x0; x < x1; x += 4) {
            stbi_uc *p = &g->out[y + x];
            p[0] = c[2];
            p[1] = c[1];
            p[2] = c[0];
            p[3] = 0;
        }
    }
}

// this function is designed to support animated gifs, although stb_image doesn't supp
ort it
static stbi_uc *stbi__gif_load_next(stbi__context *s, stbi__gif *g, int *comp, int req
_comp)
{
    int i;
    stbi_uc *prev_out = 0;

    if (g->out == 0 && !stbi__gif_header(s, g, comp, 0))
        return 0; // stbi__g_failure_reason set by stbi__gif_header

    if (!stbi__mad3sizes_valid(g->w, g->h, 4, 0))
        return stbi__errpuc("too large", "GIF too large");

    prev_out = g->out;
    g->out = (stbi_uc *)stbi__malloc_mad3(4, g->w, g->h, 0);
    if (g->out == 0) return stbi__errpuc("outofmem", "Out of memory");
}

```



```

switch ((g->eflags & 0x1C) >> 2) {
case 0: // unspecified (also always used on 1st frame)
    stbi__fill_gif_background(g, 0, 0, 4 * g->w, 4 * g->w * g->h);
    break;
case 1: // do not dispose
    if (prev_out) memcpy(g->out, prev_out, 4 * g->w * g->h);
    g->old_out = prev_out;
    break;
case 2: // dispose to background
    if (prev_out) memcpy(g->out, prev_out, 4 * g->w * g->h);
    stbi__fill_gif_background(g, g->start_x, g->start_y, g->max_x, g->max_
y);
    break;
case 3: // dispose to previous
    if (g->old_out) {
        for (i = g->start_y; i < g->max_y; i += 4 * g->w)
            memcpy(&g->out[i + g->start_x], &g->old_out[i + g->sta
rt_x], g->max_x - g->start_x);
    }
    break;
}

for (;;) {
    switch (stbi__get8(s)) {
    case 0x2C: /* Image Descriptor */
    {
        int prev_trans = -1;
        stbi__int32 x, y, w, h;
        stbi_uc *o;

        x = stbi__get16le(s);
        y = stbi__get16le(s);
        w = stbi__get16le(s);
        h = stbi__get16le(s);
        if (((x + w) > (g->w)) || ((y + h) > (g->h)))
            return stbi__errpuc("bad Image Descriptor", "Corrupt G
IF");

        g->line_size = g->w * 4;
        g->start_x = x * 4;
        g->start_y = y * g->line_size;
        g->max_x = g->start_x + w * 4;
        g->max_y = g->start_y + h * g->line_size;
        g->cur_x = g->start_x;
        g->cur_y = g->start_y;

        g->lflags = stbi__get8(s);

        if (g->lflags & 0x40) {
            g->step = 8 * g->line_size; // first interlaced spacin
g
            g->parse = 3;
        }
        else {
            g->step = g->line_size;
            g->parse = 0;
        }

        if (g->lflags & 0x80) {
            stbi__gif_parse_colortable(s, g->lpal, 2 << (g->lflags
& 7), g->eflags & 0x01 ? g->transparent : -1);
            g->color_table = (stbi_uc *)g->lpal;
        }
        else if (g->flags & 0x80) {
            if (g->transparent >= 0 && (g->eflags & 0x01)) {
                prev_trans = g->pal[g->transparent][3];
                g->pal[g->transparent][3] = 0;
            }
            g->color_table = (stbi_uc *)g->pal;
        }
    }
}

```

```

    }
    else
        return stbi__errpuc("missing color table", "Corrupt GIF
F");

    o = stbi__process_gif_raster(s, g);
    if (o == NULL) return NULL;

    if (prev_trans != -1)
        g->pal[g->transparent][3] = (stbi_uc)prev_trans;

    return o;
}

case 0x21: // Comment Extension.
{
    int len;
    if (stbi__get8(s) == 0xF9) { // Graphic Control Extension.
        len = stbi__get8(s);
        if (len == 4) {
            g->eflags = stbi__get8(s);
            g->delay = stbi__get16le(s);
            g->transparent = stbi__get8(s);
        }
        else {
            stbi__skip(s, len);
            break;
        }
    }
    while ((len = stbi__get8(s)) != 0)
        stbi__skip(s, len);
    break;
}

case 0x3B: // gif stream termination code
    return (stbi_uc *)s; // using '1' causes warning on some compi
lers

default:
    return stbi__errpuc("unknown code", "Corrupt GIF");
}

}

STBI_NOTUSED(req_comp);
}

static void *stbi__gif_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
stbi__result_info *ri)
{
    stbi_uc *u = 0;
    stbi__gif* g = (stbi__gif*)stbi__malloc(sizeof(stbi__gif));
    memset(g, 0, sizeof(*g));
    STBI_NOTUSED(ri);

    u = stbi__gif_load_next(s, g, comp, req_comp);
    if (u == (stbi_uc *)s) u = 0; // end of animated gif marker
    if (u) {
        *x = g->w;
        *y = g->h;
        if (req_comp && req_comp != 4)
            u = stbi__convert_format(u, 4, req_comp, g->w, g->h);
    }
    else if (g->out)
        STBI_FREE(g->out);
    STBI_FREE(g);
    return u;
}

static int stbi__gif_info(stbi__context *s, int *x, int *y, int *comp)

```

```

{
    return stbi__gif_info_raw(s, x, y, comp);
}
#endif

// *****
// Radiance RGBE HDR loader
// originally by Nicolas Schulz
#ifndef STBI_NO_HDR
static int stbi__hdr_test_core(stbi__context *s, const char *signature)
{
    int i;
    for (i = 0; signature[i]; ++i)
        if (stbi__get8(s) != signature[i])
            return 0;
    stbi__rewind(s);
    return 1;
}

static int stbi__hdr_test(stbi__context* s)
{
    int r = stbi__hdr_test_core(s, "#?RADIANCE\n");
    stbi__rewind(s);
    if (!r) {
        r = stbi__hdr_test_core(s, "#?RGBE\n");
        stbi__rewind(s);
    }
    return r;
}

#define STBI__HDR_BUFLEN 1024
static char *stbi__hdr_gettoken(stbi__context *z, char *buffer)
{
    int len = 0;
    char c = '\0';

    c = (char)stbi__get8(z);

    while (!stbi__at_eof(z) && c != '\n') {
        buffer[len++] = c;
        if (len == STBI__HDR_BUFLEN - 1) {
            // flush to end of line
            while (!stbi__at_eof(z) && stbi__get8(z) != '\n')
                ;
            break;
        }
        c = (char)stbi__get8(z);
    }

    buffer[len] = 0;
    return buffer;
}

static void stbi__hdr_convert(float *output, stbi_uc *input, int req_comp)
{
    if (input[3] != 0) {
        float f1;
        // Exponent
        f1 = (float)ldexp(1.0f, input[3] - (int)(128 + 8));
        if (req_comp <= 2)
            output[0] = (input[0] + input[1] + input[2]) * f1 / 3;
        else {
            output[0] = input[0] * f1;
            output[1] = input[1] * f1;
            output[2] = input[2] * f1;
        }
        if (req_comp == 2) output[1] = 1;
        if (req_comp == 4) output[3] = 1;
    }
}

```

```

    }
    else {
        switch (req_comp) {
            case 4: output[3] = 1; /* fallthrough */
            case 3: output[0] = output[1] = output[2] = 0;
                    break;
            case 2: output[1] = 1; /* fallthrough */
            case 1: output[0] = 0;
                    break;
        }
    }
}

static float *stbi__hdr_load(stbi__context *s, int *x, int *y, int *comp, int req_comp
, stbi__result_info *ri)
{
    char buffer[STBI__HDR_BUFLLEN];
    char *token;
    int valid = 0;
    int width, height;
    stbi_uc *scanline;
    float *hdr_data;
    int len;
    unsigned char count, value;
    int i, j, k, c1, c2, z;
    const char *headerToken;
    STBI_NOTUSED(ri);

    // Check identifier
    headerToken = stbi__hdr_gettoken(s, buffer);
    if (strcmp(headerToken, "#?RADIANCE") != 0 && strcmp(headerToken, "#?RGBE") !=
0)
        return stbi__errpf("not HDR", "Corrupt HDR image");

    // Parse header
    for (;;) {
        token = stbi__hdr_gettoken(s, buffer);
        if (token[0] == 0) break;
        if (strcmp(token, "FORMAT=32-bit_rle_rgbe") == 0) valid = 1;
    }

    if (!valid)    return stbi__errpf("unsupported format", "Unsupported HDR forma
t");

    // Parse width and height
    // can't use sscanf() if we're not using stdio!
    token = stbi__hdr_gettoken(s, buffer);
    if (strncmp(token, "-Y ", 3))    return stbi__errpf("unsupported data layout", "
Unsupported HDR format");
    token += 3;
    height = (int)strtol(token, &token, 10);
    while (*token == ' ') ++token;
    if (strncmp(token, "+X ", 3))    return stbi__errpf("unsupported data layout", "
Unsupported HDR format");
    token += 3;
    width = (int)strtol(token, NULL, 10);

    *x = width;
    *y = height;

    if (comp) *comp = 3;
    if (req_comp == 0) req_comp = 3;

    if (!stbi__mad4sizes_valid(width, height, req_comp, sizeof(float), 0))
        return stbi__errpf("too large", "HDR image is too large");

    // Read data
    hdr_data = (float *)stbi__malloc_mad4(width, height, req_comp, sizeof(float),
0);

```

```

    if (!hdr_data)
        return stbi__errpf("outofmem", "Out of memory");

    // Load image data
    // image data is stored as some number of sca
    if (width < 8 || width >= 32768) {
        // Read flat data
        for (j = 0; j < height; ++j) {
            for (i = 0; i < width; ++i) {
                stbi_uc rgbe[4];
                main_decode_loop:
                stbi__getn(s, rgbe, 4);
                stbi__hdr_convert(hdr_data + j * width * req_comp + i
* req_comp, rgbe, req_comp);
            }
        }
    }
    else {
        // Read RLE-encoded data
        scanline = NULL;

        for (j = 0; j < height; ++j) {
            c1 = stbi__get8(s);
            c2 = stbi__get8(s);
            len = stbi__get8(s);
            if (c1 != 2 || c2 != 2 || (len & 0x80)) {
                // not run-length encoded, so we have to actually use
                // pixel (note this can't be a valid pixel--one of RGB
                // must be >= 128)
                stbi_uc rgbe[4];
                rgbe[0] = (stbi_uc)c1;
                rgbe[1] = (stbi_uc)c2;
                rgbe[2] = (stbi_uc)len;
                rgbe[3] = (stbi_uc)stbi__get8(s);
                stbi__hdr_convert(hdr_data, rgbe, req_comp);
                i = 1;
                j = 0;
                STBI_FREE(scanline);
                goto main_decode_loop; // yes, this makes no sense
            }
            len <= 8;
            len |= stbi__get8(s);
            if (len != width) { STBI_FREE(hdr_data); STBI_FREE(scanline);
return stbi__errpf("invalid decoded scanline length", "corrupt HDR"); }
            if (scanline == NULL) {
                scanline = (stbi_uc *)stbi__malloc_mad2(width, 4, 0);
                if (!scanline) {
                    STBI_FREE(hdr_data);
                    return stbi__errpf("outofmem", "Out of memory"
);
                }
            }

            for (k = 0; k < 4; ++k) {
                int nleft;
                i = 0;
                while ((nleft = width - i) > 0) {
                    count = stbi__get8(s);
                    if (count > 128) {
                        // Run
                        value = stbi__get8(s);
                        count -= 128;
                        if (count > nleft) { STBI_FREE(hdr_dat
a); STBI_FREE(scanline); return stbi__errpf("corrupt", "bad RLE data in HDR"); }
                        for (z = 0; z < count; ++z)
                            scanline[i++ * 4 + k] = value;
                    }
                    else {

```

```

// Dump
if (count > nleft) { STBI_FREE(hdr_data);
a); STBI_FREE(scanline); return stbi__errpf("corrupt", "bad RLE data in HDR"); }
for (z = 0; z < count; ++z)
    scanline[i++ * 4 + k] = stbi__
get8(s);
}
}
for (i = 0; i < width; ++i)
    stbi__hdr_convert(hdr_data + (j*width + i)*req_comp, s
canline + i * 4, req_comp);
}
if (scanline)
    STBI_FREE(scanline);
}
return hdr_data;
}

static int stbi__hdr_info(stbi__context *s, int *x, int *y, int *comp)
{
    char buffer[STBI__HDR_BUFLEN];
    char *token;
    int valid = 0;
    int dummy;

    if (!x) x = &dummy;
    if (!y) y = &dummy;
    if (!comp) comp = &dummy;

    if (stbi__hdr_test(s) == 0) {
        stbi__rewind(s);
        return 0;
    }

    for (;;) {
        token = stbi__hdr_gettoken(s, buffer);
        if (token[0] == 0) break;
        if (strcmp(token, "FORMAT=32-bit_rle_rgbe") == 0) valid = 1;
    }

    if (!valid) {
        stbi__rewind(s);
        return 0;
    }
    token = stbi__hdr_gettoken(s, buffer);
    if (strncmp(token, "-Y ", 3)) {
        stbi__rewind(s);
        return 0;
    }
    token += 3;
    *y = (int)strtol(token, &token, 10);
    while (*token == ' ') ++token;
    if (strncmp(token, "+X ", 3)) {
        stbi__rewind(s);
        return 0;
    }
    token += 3;
    *x = (int)strtol(token, NULL, 10);
    *comp = 3;
    return 1;
}
#endif // STBI_NO_HDR

#ifdef STBI_NO_BMP
static int stbi__bmp_info(stbi__context *s, int *x, int *y, int *comp)
{
    void *p;

```

```

    stbi__bmp_data info;

    info.all_a = 255;
    p = stbi__bmp_parse_header(s, &info);
    stbi__rewind(s);
    if (p == NULL)
        return 0;
    if (x) *x = s->img_x;
    if (y) *y = s->img_y;
    if (comp) *comp = info.ma ? 4 : 3;
    return 1;
}
#endif

#ifndef STBI_NO_PSD
static int stbi__psd_info(stbi__context *s, int *x, int *y, int *comp)
{
    int channelCount, dummy;
    if (!x) x = &dummy;
    if (!y) y = &dummy;
    if (!comp) comp = &dummy;
    if (stbi__get32be(s) != 0x38425053) {
        stbi__rewind(s);
        return 0;
    }
    if (stbi__get16be(s) != 1) {
        stbi__rewind(s);
        return 0;
    }
    stbi__skip(s, 6);
    channelCount = stbi__get16be(s);
    if (channelCount < 0 || channelCount > 16) {
        stbi__rewind(s);
        return 0;
    }
    *y = stbi__get32be(s);
    *x = stbi__get32be(s);
    if (stbi__get16be(s) != 8) {
        stbi__rewind(s);
        return 0;
    }
    if (stbi__get16be(s) != 3) {
        stbi__rewind(s);
        return 0;
    }
    *comp = 4;
    return 1;
}
#endif

#ifndef STBI_NO_PIC
static int stbi__pic_info(stbi__context *s, int *x, int *y, int *comp)
{
    int act_comp = 0, num_packets = 0, chained, dummy;
    stbi__pic_packet packets[10];

    if (!x) x = &dummy;
    if (!y) y = &dummy;
    if (!comp) comp = &dummy;

    if (!stbi__pic_is4(s, "\x53\x80\xF6\x34")) {
        stbi__rewind(s);
        return 0;
    }

    stbi__skip(s, 88);

    *x = stbi__get16be(s);
    *y = stbi__get16be(s);

```

```

    if (stbi__at_eof(s)) {
        stbi__rewind(s);
        return 0;
    }
    if ((*x) != 0 && (1 << 28) / (*x) < (*y)) {
        stbi__rewind(s);
        return 0;
    }

    stbi__skip(s, 8);

    do {
        stbi__pic_packet *packet;

        if (num_packets == sizeof(packets) / sizeof(packets[0]))
            return 0;

        packet = &packets[num_packets++];
        chained = stbi__get8(s);
        packet->size = stbi__get8(s);
        packet->type = stbi__get8(s);
        packet->channel = stbi__get8(s);
        act_comp |= packet->channel;

        if (stbi__at_eof(s)) {
            stbi__rewind(s);
            return 0;
        }
        if (packet->size != 8) {
            stbi__rewind(s);
            return 0;
        }
    } while (chained);

    *comp = (act_comp & 0x10 ? 4 : 3);

    return 1;
}
#endif

// *****
// *****
// Portable Gray Map and Portable Pixel Map loader
// by Ken Miller
//
// PGM: http://netpbm.sourceforge.net/doc/pgm.html
// PPM: http://netpbm.sourceforge.net/doc/ppm.html
//
// Known limitations:
//   Does not support comments in the header section
//   Does not support ASCII image data (formats P2 and P3)
//   Does not support 16-bit-per-channel

#ifndef STBI_NO_PNM

static int      stbi__pnm_test(stbi__context *s)
{
    char p, t;
    p = (char)stbi__get8(s);
    t = (char)stbi__get8(s);
    if (p != 'P' || (t != '5' && t != '6')) {
        stbi__rewind(s);
        return 0;
    }
    return 1;
}

static void *stbi__pnm_load(stbi__context *s, int *x, int *y, int *comp, int req_comp,
    stbi__result_info *ri)

```



```

{
    stbi_uc *out;
    STBI_NOTUSED(ri);

    if (!stbi__pnm_info(s, (int *)&s->img_x, (int *)&s->img_y, (int *)&s->img_n))
        return 0;

    *x = s->img_x;
    *y = s->img_y;
    if (comp) *comp = s->img_n;

    if (!stbi__mad3sizes_valid(s->img_n, s->img_x, s->img_y, 0))
        return stbi__errpuc("too large", "PNM too large");

    out = (stbi_uc *)stbi__malloc_mad3(s->img_n, s->img_x, s->img_y, 0);
    if (!out) return stbi__errpuc("outofmem", "Out of memory");
    stbi__getn(s, out, s->img_n * s->img_x * s->img_y);

    if (req_comp && req_comp != s->img_n) {
        out = stbi__convert_format(out, s->img_n, req_comp, s->img_x, s->img_y
);
        if (out == NULL) return out; // stbi__convert_format frees input on failure
    }
    return out;
}

static int stbi__pnm_isspace(char c)
{
    return c == ' ' || c == '\t' || c == '\n' || c == '\v' || c == '\f' || c == '\r';
}

static void stbi__pnm_skip_whitespace(stbi__context *s, char *c)
{
    for (;;) {
        while (!stbi__at_eof(s) && stbi__pnm_isspace(*c))
            *c = (char)stbi__get8(s);

        if (stbi__at_eof(s) || *c != '#')
            break;

        while (!stbi__at_eof(s) && *c != '\n' && *c != '\r')
            *c = (char)stbi__get8(s);
    }
}

static int stbi__pnm_isdigit(char c)
{
    return c >= '0' && c <= '9';
}

static int stbi__pnm_getinteger(stbi__context *s, char *c)
{
    int value = 0;

    while (!stbi__at_eof(s) && stbi__pnm_isdigit(*c)) {
        value = value * 10 + (*c - '0');
        *c = (char)stbi__get8(s);
    }

    return value;
}

static int stbi__pnm_info(stbi__context *s, int *x, int *y, int *comp)
{
    int maxv, dummy;
    char c, p, t;

```

```

    if (!x) x = &dummy;
    if (!y) y = &dummy;
    if (!comp) comp = &dummy;

    stbi__rewind(s);

    // Get identifier
    p = (char)stbi__get8(s);
    t = (char)stbi__get8(s);
    if (p != 'P' || (t != '5' && t != '6')) {
        stbi__rewind(s);
        return 0;
    }

    *comp = (t == '6') ? 3 : 1; // '5' is 1-component .pgm; '6' is 3-component .p
pm

    c = (char)stbi__get8(s);
    stbi__pnm_skip_whitespace(s, &c);

    *x = stbi__pnm_getinteger(s, &c); // read width
    stbi__pnm_skip_whitespace(s, &c);

    *y = stbi__pnm_getinteger(s, &c); // read height
    stbi__pnm_skip_whitespace(s, &c);

    maxv = stbi__pnm_getinteger(s, &c); // read max value

    if (maxv > 255)
        return stbi__err("max value > 255", "PPM image not 8-bit");
    else
        return 1;
}
#endif

static int stbi__info_main(stbi__context *s, int *x, int *y, int *comp)
{
#ifdef STBI_NO_JPEG
    if (stbi__jpeg_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_PNG
    if (stbi__png_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_GIF
    if (stbi__gif_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_BMP
    if (stbi__bmp_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_PSD
    if (stbi__psd_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_PIC
    if (stbi__pic_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_PNM
    if (stbi__pnm_info(s, x, y, comp)) return 1;
#endif
#ifdef STBI_NO_HDR
    if (stbi__hdr_info(s, x, y, comp)) return 1;
#endif
}

```

```

        // test tga last because it's a crappy test!
#ifndef STBI_NO_TGA
    if (stbi__tga_info(s, x, y, comp))
        return 1;
#endif

return stbi__err("unknown image type", "Image not of any known type, or corrup
t");
}

#ifndef STBI_NO_STDIO
STBIDEF int stbi_info(char const *filename, int *x, int *y, int *comp)
{
    FILE *f = stbi__fopen(filename, "rb");
    int result;
    if (!f) return stbi__err("can't fopen", "Unable to open file");
    result = stbi_info_from_file(f, x, y, comp);
    fclose(f);
    return result;
}

STBIDEF int stbi_info_from_file(FILE *f, int *x, int *y, int *comp)
{
    int r;
    stbi__context s;
    long pos = ftell(f);
    stbi__start_file(&s, f);
    r = stbi__info_main(&s, x, y, comp);
    fseek(f, pos, SEEK_SET);
    return r;
}
#endif // !STBI_NO_STDIO

STBIDEF int stbi_info_from_memory(stbi_uc const *buffer, int len, int *x, int *y, int
*comp)
{
    stbi__context s;
    stbi__start_mem(&s, buffer, len);
    return stbi__info_main(&s, x, y, comp);
}

STBIDEF int stbi_info_from_callbacks(stbi_io_callbacks const *c, void *user, int *x, i
nt *y, int *comp)
{
    stbi__context s;
    stbi__start_callbacks(&s, (stbi_io_callbacks *)c, user);
    return stbi__info_main(&s, x, y, comp);
}

#endif // STB_IMAGE_IMPLEMENTATION

/*
revision history:
2.16 (2017-07-23) all functions have 16-bit variants;
STBI_NO_STDIO works again;
compilation fixes;
fix rounding in unpremultiply;
optimize vertical flip;
disable raw_len validation;
documentation fixes
2.15 (2017-03-18) fix png-1,2,4 bug; now all Imagenet JPGs decode;
warning fixes; disable run-time SSE detection on gcc;
uniform handling of optional "return" values;
thread-safe initialization of zlib tables
2.14 (2017-03-03) remove deprecated STBI_JPEG_OLD; fixes for Imagenet JPGs
2.13 (2016-11-29) add 16-bit API, only supported for PNG right now
2.12 (2016-04-02) fix typo in 2.11 PSD fix that caused crashes
2.11 (2016-04-02) allocate large structures on the stack
remove white matting for transparent PSD
fix reported channel count for PNG & BMP

```

re-enable SSE2 in non-gcc 64-bit
support RGB-formatted JPEG
read 16-bit PNGs (only as 8-bit)
2.10 (2016-01-22) avoid warning introduced in 2.09 by STBI_REALLOC_SIZED
2.09 (2016-01-16) allow comments in PNM files
16-bit-per-pixel TGA (not bit-per-component)
info() for TGA could break due to .hdr handling
info() for BMP to shares code instead of sloppy parse
can use STBI_REALLOC_SIZED if allocator doesn't support realloc
code cleanup
2.08 (2015-09-13) fix to 2.07 cleanup, reading RGB PSD as RGBA
2.07 (2015-09-13) fix compiler warnings
partial animated GIF support
limited 16-bpc PSD support
#ifdef unused functions
bug with < 92 byte PIC,PNM,HDR,TGA
2.06 (2015-04-19) fix bug where PSD returns wrong '*comp' value
2.05 (2015-04-19) fix bug in progressive JPEG handling, fix warning
2.04 (2015-04-15) try to re-enable SIMD on MinGW 64-bit
2.03 (2015-04-12) extra corruption checking (mmozeiko)
stbi_set_flip_vertically_on_load (nguillemot)
fix NEON support; fix mingw support
2.02 (2015-01-19) fix incorrect assert, fix warning
2.01 (2015-01-17) fix various warnings; suppress SIMD on gcc 32-bit without -msse2
2.00b (2014-12-25) fix STBI_MALLOC in progressive JPEG
2.00 (2014-12-25) optimize JPG, including x86 SSE2 & NEON SIMD (ryg)
progressive JPEG (stb)
PGM/PPM support (Ken Miller)
STBI_MALLOC,STBI_REALLOC,STBI_FREE
GIF bugfix -- seemingly never worked
STBI_NO_*, STBI_ONLY_*
1.48 (2014-12-14) fix incorrectly-named assert()
1.47 (2014-12-14) 1/2/4-bit PNG support, both direct and paletted (Omar Cornut & stb)
optimize PNG (ryg)
fix bug in interlaced PNG with user-specified channel count (stb)
1.46 (2014-08-26)
fix broken tRNS chunk (colorkey-style transparency) in non-paletted PNG
1.45 (2014-08-16)
fix MSVC-ARM internal compiler error by wrapping malloc
1.44 (2014-08-07)
various warning fixes from Ronny Chevalier
1.43 (2014-07-15)
fix MSVC-only compiler problem in code changed in 1.42
1.42 (2014-07-09)
don't define _CRT_SECURE_NO_WARNINGS (affects user code)
fixes to stbi__cleanup_jpeg path
added STBI_ASSERT to avoid requiring assert.h
1.41 (2014-06-25)
fix search&replace from 1.36 that messed up comments/error messages
1.40 (2014-06-22)
fix gcc struct-initialization warning
1.39 (2014-06-15)
fix to TGA optimization when req_comp != number of components in TGA;
fix to GIF loading because BMP wasn't rewinding (whoops, no GIFs in my test suite)
add support for BMP version 5 (more ignored fields)
1.38 (2014-06-06)
suppress MSVC warnings on integer casts truncating values
fix accidental rename of 'skip' field of I/O
1.37 (2014-06-04)
remove duplicate typedef
1.36 (2014-06-03)
convert to header file single-file library
if de-iphone isn't set, load iphone images color-swapped instead of returning NULL
1.35 (2014-05-27)
various warnings
fix broken STBI_SIMD path
fix bug where stbi_load_from_file no longer left file pointer in correct place
fix broken non-easy path for 32-bit BMP (possibly never used)
TGA optimization by Arseniy Kapoulkine

1.34 (unknown)
 use STBI_NOTUSED in stbi__resample_row_generic(), fix one more leak in tga failure case

1.33 (2011-07-14)
 make stbi_is_hdr work in STBI_NO_HDR (as specified), minor compiler-friendly improvements

1.32 (2011-07-13)
 support for "info" function for all supported filetypes (SpartanJ)

1.31 (2011-06-20)
 a few more leak fixes, bug in PNG handling (SpartanJ)

1.30 (2011-06-11)
 added ability to load files via callbacks to accomodate custom input streams (Ben Wenger)
 removed deprecated format-specific test/load functions
 removed support for installable file formats (stbi_loader) -- would have been broken for IO callbacks anyway
 error cases in bmp and tga give messages and don't leak (Raymond Barbiero, grisha)
 fix inefficiency in decoding 32-bit BMP (David Woo)

1.29 (2010-08-16)
 various warning fixes from Aurelien Pocheville

1.28 (2010-08-01)
 fix bug in GIF palette transparency (SpartanJ)

1.27 (2010-08-01)
 cast-to-stbi_uc to fix warnings

1.26 (2010-07-24)
 fix bug in file buffering for PNG reported by SpartanJ

1.25 (2010-07-17)
 refix trans_data warning (Won Chun)

1.24 (2010-07-12)
 perf improvements reading from files on platforms with lock-heavy fgetc()
 minor perf improvements for jpeg
 deprecated type-specific functions so we'll get feedback if they're needed
 attempt to fix trans_data warning (Won Chun)

1.23 fixed bug in iPhone support

1.22 (2010-07-10)
 removed image *writing* support
 stbi_info support from Jetro Lauha
 GIF support from Jean-Marc Lienher
 iPhone PNG-extensions from James Brown
 warning-fixes from Nicolas Schulz and Janez Zemva (i.stbi__err. Janez (U+017D)emva)

1.21 fix use of 'stbi_uc' in header (reported by jon blow)

1.20 added support for Softimage PIC, by Tom Seddon

1.19 bug in interlaced PNG corruption check (found by ryg)

1.18 (2008-08-02)
 fix a threading bug (local mutable static)

1.17 support interlaced PNG

1.16 major bugfix - stbi__convert_format converted one too many pixels

1.15 initialize some fields for thread safety

1.14 fix thread-safe conversion bug

header-file-only version (#define STBI_HEADER_FILE_ONLY before including)

1.13 thread-safe

1.12 const qualifiers in the API

1.11 Support installable IDCT, colorspace conversion routines

1.10 Fixes for 64-bit (don't use "unsigned long")

optimized upsampling by Fabian "ryg" Giesen

1.09 Fix format-conversion for PSD code (bad global variables!)

1.08 Thatcher Ulrich's PSD code integrated by Nicolas Schulz

1.07 attempt to fix C++ warning/errors again

1.06 attempt to fix C++ warning/errors again

1.05 fix TGA loading to return correct *comp and use good luminance calc

1.04 default float alpha is 1, not 255; use 'void *' for stbi_image_free

1.03 bugfixes to STBI_NO_STDIO, STBI_NO_HDR

1.02 support for (subset of) HDR files, float interface for preferred access to the m

1.01 fix bug: possible bug in handling right-side up bmps... not sure
 fix bug: the stbi__bmp_load() and stbi__tga_load() functions didn't work at all

1.00 interface to zlib that skips zlib header

0.99 correct handling of alpha in palette

0.98 TGA loader by lonesock; dynamically add loaders (untested)

```
0.97 jpeg errors on too large a file; also catch another malloc failure
0.96 fix detection of invalid v value - particleman@mollyrocket forum
0.95 during header scan, seek to markers in case of padding
0.94 STBI_NO_STDIO to disable stdio usage; rename all #defines the same
0.93 handle jpegtran output; verbose errors
0.92 read 4,8,16,24,32-bit BMP files of several formats
0.91 output 24-bit Windows 3.0 BMP files
0.90 fix a few more warnings; bump version number to approach 1.0
0.61 bugfixes due to Marc LeBlanc, Christopher Lloyd
0.60 fix compiling as c++
0.59 fix warnings: merge Dave Moore's -Wall fixes
0.58 fix bug: zlib uncompressed mode len/nlen was wrong endian
0.57 fix bug: jpg last huffman symbol before marker was >9 bits but less than 16 av
ailable
0.56 fix bug: zlib uncompressed mode len vs. nlen
0.55 fix bug: restart_interval not initialized to 0
0.54 allow NULL for 'int *comp'
0.53 fix bug in png 3->4; speedup png decoding
0.52 png handles req_comp=3,4 directly; minor cleanup; jpeg comments
0.51 obey req_comp requests, 1-component jpegs return as 1-component,
on 'test' only check type, not whether we support this variant
0.50 (2006-11-19)
first released version
*/
```

```
/*
```

```
-----
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-----
```

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```
*/
```

```
/*
```

```
* CAPIREF: Refer to the official documentation for the main purpose of this interface.
*/
unsigned char * AsciiArtLoadImage(const char * zPath, int * pWidth, int * pHeight)
{
    unsigned char *zBlob;
    int c;
    zBlob = stbi_load(zPath,pWidth, pHeight, &c, 1);
    return zBlob;
}
```

```
asciilib.txt
---
```