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высшего образования
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ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ № 5

Взаимодействие процессов в ОС GNU/Linux
Тема

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Красноярск 2021

1 Цель

Изучение особенностей межпроцессного взаимодействия в ОС GNU/Linux.

2 Задачи

1. Ознакомиться с краткими теоретическими сведениями по организации межпроцессного взаимодействия в ОС GNU/Linux.

2. Получить у преподавателя собственный вариант задания, который предусматривает разработку серверной и клиентской частей приложения, взаимодействующих посредством механизма *Internet*-сокетов и сетевых протоколов. **Использование высокоуровневых средств является ошибочным.** При выполнении заданий с нечетным вариантом должны использоваться потоковые сокеты, с четным вариантом — дейтаграммные. Обеспечить сборку программы с использованием скрипта *configure* и утилиты GNU *make*.

3. Используя изученные механизмы, разработать и отладить:

- a. серверную часть;
- b. клиентскую часть.

4. Написать отчет и представить его к защите с исходными текстами программ, предварительно загрузив код и отчет в электронный курс в виде единственного архива формата **.tar.gz*. Исходные тексты программ должны содержать комментарии в стиле системы *doxygen*.

Описание варианта:

Программа принимает от пользователя три строки, (первая и третья строки — это правильные рациональные или десятичные дроби вида «1/3» или «0,5», вторая строка — это знак арифметической операции вида «+», «-», «*», «/» либо операции сравнения «<», «>», «=», «!=», «>=», «<=»), выполняет требуемую операцию над полученными операндами, и выводит результат на экран.

Обеспечить также сокращение дроби при необходимости. Если оба операнда арифметической операции являются рациональными дробями, результатом тоже должна быть рациональная дробь. Для операций сравнения достаточно результата «Истина» или «Ложь». Создать третий запрос, состоящей только из девушек. Реализовать возможность ввода имени файла и размера записи в файле в виде аргументов командной строки.

3 Исходные тексты программ

На листинге 1 представлен код программы algorithm.c.

Листинг 1 – Код программы с основным алгоритмом

```
/*! \file    algorithm.c
 *  \brief   Fraction calculation and comparison
 *  \author  Nikitin Alexander, KI19-17/1Б
 */
#include <string.h>
#include <stdlib.h>
#include <stdbool.h>
#include <math.h>
#include <stdio.h>
#include "algorithm.h"

/*! \brief Checks if the string contains only digits
 *
 *  \param[in] string Numeric or non-numeric string
 *
 *  \return Is the string contains only digits or not (true or false)
 */
bool checkInt(char* string)
{
    char* intChars = "0123456789";

    for (int i = 0; i < strlen(string); i++)
    {
        // Проверка минуса перед числом
        if (i == 0 && string[i] == '-')
            continue;

        if (strchr(intChars, string[i]) == NULL)
            return false;
    }
    return true;
}

/*! \brief Divides fraction in two parts and returns both of the values. First
part is numeric part, second part is
 * fractional part. Both are integers.
 */
```

```

* \param[in] string Source fraction
* \param[in] pos Position of separator (',' or '/')
*
* \return First and second numbers of fraction
*/
struct fractionParts splitFraction(char* string, int pos)
{
    struct fractionParts output;

    char* firstPart = NULL;
    char* secondPart = NULL;

    int firstNumber;
    int secondNumber;

    char* pEnd = NULL;

    if (pos <= 0 || pos > strlen(string))
    {
        output.isWrong = true;
        return output;
    }

    // Срез целой части
    for (int i = 0; i < pos; i++)
    {
        firstPart = realloc(firstPart, i + 2);
        firstPart[i] = string[i];
    }
    firstPart[pos] = '\0';

    // Срез дробной части
    for (int i = pos + 1, j = 0; i < strlen(string); i++, j++)
    {
        secondPart = realloc(secondPart, j + 2);
        secondPart[j] = string[i];
    }
    secondPart[strlen(string) - pos - 1] = '\0';

    if (!checkInt(firstPart) || !checkInt(secondPart))
    {
        output.isWrong = true;
    }
}

```

```

        return output;
    }

    if (firstPart[0] == '-')
        output.isNegative = true;
    else
        output.isNegative = false;

    firstNumber = abs(strtol(firstPart, &pEnd, 10));
    secondNumber = abs(strtol(secondPart, &pEnd, 10));

    output.firstPart = firstNumber;
    output.secondPart = secondNumber;
    output.isWrong = false;

    return output;
}

/*! \brief Tries to transform string into fractionString.
 *
 * \param[in] fractionString Potential fractionString (X.X or X/X)
 *
 * \return All essential information about fraction (if fraction.isWrong ==
false)
 */
fractionInfo_t makeIntoFraction(char* fractionString)
{
    char fractionSeparator;
    char fractionSeparatorString[2];

    struct fractionParts fraction;
    fractionInfo_t convertedFraction;

    printf("%s\n", fractionString);

    fractionSeparator = strpbrk(fractionString, "/,.")[0];
    fractionSeparatorString[0] = fractionSeparator;
    int posSeparator = (int) strcspn(fractionString, fractionSeparatorString) +
1;

    fraction = splitFraction(fractionString, posSeparator - 1);

```

```

    if (fraction.isWrong)
    {
        convertedFraction.isWrong = true;
        return convertedFraction;
    }

    // Заполнение информации о дроби
    convertedFraction.firstPart = fraction.firstPart;
    convertedFraction.secondPart = fraction.secondPart;
    convertedFraction.isNegative = fraction.isNegative;

    switch (fractionSeparator)
    {
    case '/':
    {
        convertedFraction.type = COMMON;
        if (convertedFraction.secondPart == 0)
            convertedFraction.isWrong = true;
        else
            convertedFraction.isWrong = false;
        return convertedFraction;
    }

    case ',':
    case '.':
    {
        convertedFraction.type = DECIMAL;
        convertedFraction.isWrong = false;
        return convertedFraction;
    }

    default:
    {
        convertedFraction.isWrong = true;
        return convertedFraction;
    }
    }
}

/*! \brief Calculates the highest power of the number. For example, 1274 = 1 *
10^3 + 2 * 10^2 + 7 * 10^1 + 4 * 10^0.
* So, the highest power (10^3) is 4.
*

```

```

* \param[in] number Source number
*
* \return The highest power
*/
int calculateHighestPower(int number)
{
    int power = 0;

    while (abs(number) > 0)
    {
        number /= 10;
        power++;
    }
    return power;
}

/*! \brief Calculates the highest negative power of the decimal number. For
example, 12.74 = 1 * 10^1 + 2 * 10^0
* + 7 * 10^-1 + 4 * 10^-2. So, the highest negative power (10^-2) is -2.
*
* \param[in] number Source number
*
* \return The highest negative power. Maximum value is MAX_DECIMAL_PART_LENGTH.
*/
int calculateHighestNegativePower(double number)
{
    int power = 0;
    while ((number - (int) number) != 0 && power <= MAX_DECIMAL_PART_LENGTH)
    {
        number *= 10;
        power++;
    }

    return power;
}

/*! \brief Finds and returns simple dividers of the number. For example, simple
dividers of 60 are 2, 2, 3, 5.
*
* \param[in] number Positive integer number
*
* \return Simple dividers of a number

```



```

*/
arrayInfo_t findSimpleDividers(int number)
{
    arrayInfo_t dividers;
    int length = 0;
    int i = 2;
    int j = 0;

    int numberCopy = number;

    while (numberCopy > 1)
    {
        while (numberCopy % i == 0)
        {
            numberCopy /= i;
            length++;
        }
        i++;
    }

    // !
    int* dividersArray = (int*) malloc(length * sizeof(int));
    i = 2;
    numberCopy = number;
    while (numberCopy > 1)
    {
        while (numberCopy % i == 0)
        {
            numberCopy /= i;
            dividersArray[j] = i;
            j++;
        }
        i++;
    }
    dividers.array = dividersArray;
    dividers.length = length;

    return dividers;
}

/*! \brief Subtract one array from another and returns the result. For example,
(3, 4, 2, 6, 2) - (2, 6) = (3, 4, 2)

```

```

*
* \param[in] minuend The minuend array
* \param[in] subtrahend The subtrahend array
*
* \return The residual array
*/
arrayInfo_t subtractArrays(arrayInfo_t minuend, arrayInfo_t subtrahend)
{
    arrayInfo_t residual;

    if (subtrahend.length == 0)
        return minuend;

    if (minuend.length == 0)
    {
        residual.array = NULL;
        residual.length = 0;
        return residual;
    }

    // Вспомогательный массив для определения, какие элементы удалять
    int minuendIndexes[minuend.length];
    for (int i = 0; i < minuend.length; i++)
    {
        minuendIndexes[i] = i;
    }

    int count = 0;
    for (int i = 0; i < subtrahend.length; i++)
    {
        for (int j = 0; j < minuend.length; j++)
        {
            if ((minuend.array[j] == subtrahend.array[i]) && (minuendIndexes[j]
!= -1))
            {
                minuendIndexes[j] = -1;
                count++;
                break;
            }
        }
    }
}

```

```

int* residualArray = (int*) malloc((minuend.length - count) * sizeof(int));

count = 0;
for (int i = 0; i < minuend.length; i++)
    if (minuendIndexes[i] != -1)
    {
        residualArray[count] = minuend.array[i];
        count++;
    }

residual.array = residualArray;
residual.length = count;

return residual;
}

/*! \brief Finds least common multiple of two numbers.
 *
 * \param[in] number1 First number of LCM
 * \param[in] number2 Second number of LCM
 *
 * \return Least common multiple
 */
int findLCM(int number1, int number2)
{
    arrayInfo_t dividers1 = findSimpleDividers(number1);

    arrayInfo_t dividers2 = findSimpleDividers(number2);
    arrayInfo_t remainingDividers = subtractArrays(dividers2, dividers1);
    int LCM = 1;

    for (int i = 0; i < dividers1.length; i++)
        LCM *= dividers1.array[i];

    // Домножаю только неповторяющиеся значения
    for (int i = 0; i < remainingDividers.length; i++)
    {
        LCM *= remainingDividers.array[i];
    }

    return LCM;
}

```

```

    /*! \brief Finds greatest common divisor of two numbers.
    *
    * \param[in] number1 First number of GCD
    * \param[in] number2 Second number of GCD
    *
    * \return Greatest common divisor
    */
int findGCD(int number1, int number2)
{
    int GCD = 1;
    if (number1 == 0 || number2 == 0)
        return GCD;

    GCD = number1 * number2 / findLCM(number1, number2);
    return GCD;
}

    /*! \brief Reduce fraction to a common denominator.
    *
    * \param[in] fraction Source fraction
    *
    * \return Nothing
    */
void reduceFraction(fractionInfo_t* fraction)
{
    if (fraction->type == DECIMAL)
    {
        fraction->isWrong = true;
        return;
    }

    int GCD = findGCD(fraction->firstPart, fraction->secondPart);
    fraction->firstPart /= GCD;
    fraction->secondPart /= GCD;
}

    /*! \brief Transforms fraction into decimal number.
    *
    * \param[in] fraction Source fraction
    *
    * \return Decimal (double) format of fraction

```

```

*/
double toDouble(fractionInfo_t fraction)
{
    double doubleFraction;
    if (fraction.type == COMMON)
        doubleFraction = (double) fraction.firstPart / (double)
fraction.secondPart;
    else
        doubleFraction = (double) fraction.firstPart +
            (double) fraction.secondPart / pow(10,
calculateHighestPower(fraction.secondPart));

    if (fraction.isNegative)
        doubleFraction *= -1;

    return doubleFraction;
}

/*! \brief Performs arithmetic operations on two fractions. Possible operations
are '+', '-', '*', '/'. Fractions
* can be decimal or common. If both are common, the result is common, too. In
other cases it is decimal.
*
* \param[in] fraction1 First part of arithmetic operation
* \param[in] fraction2 Second part of arithmetic operation
* \param[in] operation Operation type ('+', '-', '*', or '/')
*
* \return Result of arithmetic operation
*/
fractionInfo_t calculate(fractionInfo_t fraction1, fractionInfo_t fraction2,
char* operation)
{
    enum Case
    {
        Plus, Minus, Multiply, Divide
    };

    enum Case operationCode;
    if (strcmp(operation, "+") == 0)
        operationCode = Plus;
    else if (strcmp(operation, "-") == 0)
        operationCode = Minus;

```

```

else if (strcmp(operation, "*") == 0)
    operationCode = Multiply;
else
    operationCode = Divide;

fractionInfo_t result;
if (fraction1.type == COMMON && fraction2.type == COMMON)
{
    int LCM = findLCM(fraction1.secondPart, fraction2.secondPart);
    result.type = COMMON;

    // Учет знака
    if (fraction1.isNegative)
        fraction1.firstPart *= -1;

    if (fraction2.isNegative)
        fraction2.firstPart *= -1;

    switch (operationCode)
    {
    case Plus:
        result.firstPart = fraction1.firstPart * LCM / fraction1.secondPart +
            fraction2.firstPart * LCM / fraction2.secondPart;
        result.secondPart = LCM;
        break;

    case Minus:
        result.firstPart = fraction1.firstPart * LCM / fraction1.secondPart -
            fraction2.firstPart * LCM / fraction2.secondPart;
        result.secondPart = LCM;
        break;

    case Multiply:
        result.firstPart = fraction1.firstPart * fraction2.firstPart;
        result.secondPart = fraction1.secondPart * fraction2.secondPart;
        break;

    case Divide:
        result.firstPart = fraction1.firstPart * fraction2.secondPart;
        result.secondPart = fraction1.secondPart * fraction2.firstPart;
        break;
    }
}

```

```

    }

    if ((result.firstPart < 0 && result.secondPart > 0) || (result.firstPart
> 0 && result.secondPart < 0))
        result.isNegative = true;
    else
        result.isNegative = false;

    result.firstPart = abs(result.firstPart);
    result.secondPart = abs(result.secondPart);

    result.isWrong = false;

    reduceFraction(&result);
    return result;
}
else
{
    result.type = DECIMAL;

    double decimal1 = toDouble(fraction1);
    double decimal2 = toDouble(fraction2);

    double resultDecimal;

    switch (operationCode)
    {
    case Plus:
        resultDecimal = decimal1 + decimal2;
        break;

    case Minus:
        resultDecimal = decimal1 - decimal2;
        break;

    case Multiply:
        resultDecimal = decimal1 * decimal2;
        break;

    case Divide:
        resultDecimal = decimal1 / decimal2;
        break;
    }
}

```

```

    }

    if (resultDecimal < 0)
    {
        result.isNegative = true;
        resultDecimal *= -1;
    }
    else
        result.isNegative = false;

    int negativePower = calculateHighestNegativePower(resultDecimal);

    result.firstPart = (int) resultDecimal;
    result.secondPart = (int) (resultDecimal * pow(10, negativePower) -
                               (int) resultDecimal * pow(10, negativePower));

    result.isWrong = false;
    return result;
}
}

/*! \brief Compares two fractions. Possible comparison operations are '>', '<',
'=', '!=', '>=', '<='.
* Fractions can be decimal or common. Returns true or false.
*
* \param[in] fraction1 First part of comparison
* \param[in] fraction2 Second part of comparison
* \param[in] operation Operation type ('>', '<', '=', '!=', '>=', or '<=')
*
* \return Result of comparison (true or false)
*/
int compare(fractionInfo_t fraction1, fractionInfo_t fraction2, char* operation)
{
    enum Case
    {
        Lesser, Greater, Equal, NotEqual, GreaterEqual, LesserEqual
    };

    enum Case operationCode;
    if (strcmp(operation, "<") == 0)
        operationCode = Lesser;
    else if (strcmp(operation, ">") == 0)

```



```

        operationCode = Greater;
    else if (strcmp(operation, "=") == 0)
        operationCode = Equal;
    else if (strcmp(operation, "!=") == 0)
        operationCode = NotEqual;
    else if (strcmp(operation, ">=") == 0)
        operationCode = GreaterEqual;
    else
        operationCode = LesserEqual;

    double decimal1 = toDouble(fraction1);
    double decimal2 = toDouble(fraction2);

    switch (operationCode)
    {
    case Lesser:
        return decimal1 < decimal2;

    case Greater:
        return decimal1 > decimal2;

    case Equal:
        return decimal1 == decimal2;

    case NotEqual:
        return decimal1 != decimal2;

    case GreaterEqual:
        return decimal1 >= decimal2;

    case LesserEqual:
        return decimal1 <= decimal2;
    }
}

```

На листинге 2 представлен код программы socketOperations.c.

Листинг 2 – Код программы с операциями по управлению TCP-сокетами

```

#include <string.h>
#include <stdlib.h>
#include <sys/un.h>
#include <sys/socket.h>
#include <netinet/in.h>

```

```

#include <arpa/inet.h>
#include <stdio.h>
#include <stdbool.h>

#include "socketOperations.h"

/*! \brief Writes the buffer content into socket.
 *
 * \param[in] s File descriptor of socket
 * \param[in] buf The information to be written
 * \param[in] len Length of this information
 *
 * \return Is the operation successful.
 */
bool sendSocketBuf(int s, void* buf, int len)
{
    int writeError = send(s, buf, len, 0);
    if (writeError == -1)
    {
        perror("Write length error");
        return false;
    }
    return true;
}

/*! \brief Writes the text into socket.
 *
 * \param[in] socketFileDescriptor File descriptor of socket
 * \param[in] text Text that will be written into socket
 *
 * \return Nothing.
 */
void sendSocketText(int socketFileDescriptor, char* text)
{
    int length = strlen(text) + 1;

    // Записываем длину
    sendSocketBuf(socketFileDescriptor, &length, sizeof(int));
    // Записываем строку
    sendSocketBuf(socketFileDescriptor, text, length);
}

```

```

/*! \brief Read the information from socket and saves it into the buffer.
 *
 * \param[in] s File descriptor of socket
 * \param[out] buf The information to be read
 * \param[in] len Length of this information
 *
 * \return Is the operation successful.
 */
bool readSocketBuf(int s, void* buf, int len)
{
    int recvError = recv(s, buf, len, 0);
    if (recvError == -1)
    {
        perror("Socket read error");
        return false;
    }
    return true;
}

/*! \brief Read the text from socket.
 *
 * \param[in] clientSocketFileDescriptor File descriptor of socket
 * \param[out] text Text that where the information from socket will be written
 *
 * \return Is the operation successful.
 */
bool receiveSocketText(int clientSocketFileDescriptor, char** text)
{
    int length;

    if (!readSocketBuf(clientSocketFileDescriptor, &length, sizeof(int)))
        return false;

    char temp[length];
    *text = malloc(sizeof(char) * length);

    if (!readSocketBuf(clientSocketFileDescriptor, temp, length))
        return false;

    strcpy(*text, temp);

    printf("The information from socket has been received. Content: %s\n", *text);
}

```

```

        return true;
    }

    /*! \brief Creates a TCP socket for a client part.
    *
    * \return File descriptor of the socket.
    */
    int createClientTCPSocket()
    {
        int socketFileDescriptor = socket(AF_INET, SOCK_STREAM, 0);
        if (socketFileDescriptor == -1)
        {
            perror("Socket creation error");
            return -1;
        }
        return socketFileDescriptor;
    }

    /*! \brief Creates a TCP socket for a server part.
    *
    * \return File descriptor of the socket.
    */
    int createServerTCPSocket()
    {
        int socketFileDescriptor = socket(AF_INET, SOCK_STREAM, 0);
        int i = 1;
        int setsockError = setsockopt(socketFileDescriptor, SOL_SOCKET, SO_REUSEADDR,
                                      (const char*) &i, sizeof(i)
        );

        if (socketFileDescriptor == -1 || setsockError == -1)
        {
            perror("Socket creation error");
            return -1;
        }
        return socketFileDescriptor;
    }

    /*! \brief Creates the name to the TCP socket and binds it to it.
    *
    * \param[in] socketFileDescriptor File descriptor of socket

```

```

*  \param[in] port TCP port
*
*  \return Is the operation successful.
*/
bool bindTCPSocket(int socketFileDescriptor, char* port)
{
    int portNumber = strtol(port, NULL, 10);

    struct sockaddr_in name;
    name.sin_family = AF_INET;
    name.sin_port = htons((u_short) portNumber);
    name.sin_addr.s_addr = INADDR_ANY;

    int bindError = bind(socketFileDescriptor, (const struct sockaddr*) &name,
sizeof(name));
    if (bindError == -1)
    {
        perror("Bind error");
        return false;
    }

    return true;
}

/*! \brief Connects socket to the server.
*
*  \param[in] socketFileDescriptor File descriptor of socket
*  \param[in] serverIP An IP to connect the socket
*  \param[in] port TCP port
*
*  \return Is the operation successful.
*/
bool connectTCPSocket(int socketFileDescriptor, char* serverIP, char* port)
{
    struct sockaddr_in name;
    memset((char*) &name, 0, sizeof(name));

    name.sin_family = AF_INET;
    name.sin_addr.s_addr = inet_addr(serverIP);

    int portNumber = strtol(port, NULL, 10);

```

```

    if (name.sin_addr.s_addr == INADDR_NONE)
    {
        puts("Incorrect IP address!");
        return EXIT_FAILURE;
    }
    name.sin_port = htons((u_short) portNumber);

    int connectionError = connect(socketFileDescriptor, (struct sockaddr*) &name,
(socklen_t)
    sizeof(name));
    if (connectionError == -1)
    {
        perror("Connection error");
        return false;
    }

    return true;
}

/*! \brief Switch server into the ready-to-listen to sockets state.
*
* \param[in] socketFileDescriptor File descriptor of socket
*
* \return Is the operation successful.
*/
bool serverListen(int socketFileDescriptor)
{
    int listenError = listen(socketFileDescriptor, BACKLOG_NUMBER);
    if (listenError == -1)
    {
        perror("Listen error");
        return false;
    }

    return true;
}

/*! \brief Switch server into the waiting-for-sockets state.
*
* \param[in] socketFileDescriptor File descriptor of socket
*
* \return Is the operation successful.

```

```

*/
int acceptTCPSocket(int socketFileDescriptor)
{
    struct sockaddr_in clientName;
    socklen_t clientNameLength = sizeof(clientName);

    int clientSocketFileDescriptor = accept(socketFileDescriptor, (struct
sockaddr*) &clientName, &clientNameLength
    );

    if (clientSocketFileDescriptor == -1)
    {
        perror("Accept error");
        return -1;
    }

    return clientSocketFileDescriptor;
}

```

На листинге 3 представлен код программы client.c.

Листинг 3 – Код клиентской части программы

```

#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <stdbool.h>
#include <ctype.h>
#include "client.h"
#include "socketOperations.h"

#define RADIX 10
#define NUMBER_OF_COMPARISON_OPERATORS 10
#define MAX_LENGTH_COMPARISON_OPERATORS 2

/*! \brief Strrev function from <string.h> which is not available in Linux.
*
* \param[in] str Source string
*
* \return Reversed string
*/
char* strrev(char* str)
{

```

```

    if (!str || !*str)
        return str;

    int i = strlen(str) - 1, j = 0;

    char ch;
    while (i > j)
    {
        ch = str[i];
        str[i] = str[j];
        str[j] = ch;
        i--;
        j++;
    }
    return str;
}

/*! \brief Inputs the string from user console into the variable
 *
 * \param[out] word String variable of arbitrary length
 *
 * \return Nothing
 */
void inputString(char** word)
{
    int count = 0;
    char inputChar = 0;

    fflush(stdin);
    *word = NULL;

    while (1)
    {
        inputChar = getchar();
        if (inputChar == '\n')
            break;
        else
        {
            *word = realloc(*word, count + 2);
            (*word)[count] = inputChar;
            count++;
        }
    }
}

```



```

    }
    (*word)[count] = '\0';
}

/*! \brief Checks whether the string is fraction-type (x/x, x.x) or not.
 *
 * \param[in] string Verifiable string
 *
 * \return Is the string fraction-type or not
 */
bool checkFraction(char* string)
{
    char* endPtr = NULL;

    strtol(string, &endPtr, RADIX);
    if (strcmp(string, endPtr) == 0 || (endPtr[0] != '.' && endPtr[0] != '/' &&
endPtr[0] != ',')) // Если строка не
        // начинается с символа и первая часть не заканчивается разделителем
        return false;

    strcpy(string, strrev(string));
    strtol(string, &endPtr, RADIX);
    if (strcmp(string, endPtr) == 0 || (endPtr[0] != '.' && endPtr[0] != '/' &&
endPtr[0] != ',')) // Если строка не
        // начинается с символа и первая часть не заканчивается разделителем
        return false;

    strrev(string);
    return true;
}

/*! \brief Checks if the operation type is supportable in the program.
 * List of operations: ("+", "-", "*", "/", "<", ">", "=", "!=", ">=", "<=")
 *
 * \param[in] operation Operation string
 *
 * \return If the operator is appropriate (true or false)
 */
bool checkOperation(char* operation)
{

```

```

        char
allOperations[NUMBER_OF_COMPARISON_OPERATORS][MAX_LENGTH_COMPARISON_OPERATORS +
1]

        = {"+", "-", "*", "/", "<", ">", "=", "!=", ">=", "<="};

        for (int i = 0; i < sizeof(allOperations) / sizeof(*allOperations); i++)
            if (strcmp(allOperations[i], operation) == 0)
                return true;
        return false;
    }

    /*! \brief Checks if the string is a natural number
    *
    * \param[in] string String that may be a number or not
    *
    * \return true or false
    */
bool checkNat(char* string)
{
    for (int i = 0; string[i] != '\0'; i++)
        if (!isdigit(string[i]))
            return false;

    if (strtoul(string, NULL, 10) <= 0)
        return false;
    return true;
}

    /*! \brief Client main function
    * \param argc Number of command line arguments
    * \param argv An array of command line arguments.
    *             argv[0] - the program name,
    *             argv[1] - a socket IP-address.
    *             argv[2] - a socket port number.
    * \return Integer 0 upon exit success,
    *         or EXIT_FAILURE otherwise.
    */
int main(int argc, const char* argv[])
{
    char* firstFraction = NULL;
    char* secondFraction = NULL;
    char* operationSign = NULL;

```

```

if (argc != 3)
{
    puts("Socket name and port number expected.\n");
    return EXIT_FAILURE;
}

if (!checkNat((char*) argv[2]))
{
    puts("Incorrect port number expected.\n");
    return EXIT_FAILURE;
}

char* serverIP = (char*) argv[1];
char* port = (char*) argv[2];

int socketFileDescriptor;
while (true)
{
    do
    {
        puts("Input first fraction:");
        inputString(&firstFraction);
    } while (!checkFraction(firstFraction));

    do
    {
        puts("Input operation:");
        inputString(&operationSign);
    } while (!checkOperation(operationSign));

    do
    {
        puts("Input second fraction:");
        inputString(&secondFraction);
    } while (!checkFraction(secondFraction));

    socketFileDescriptor = createClientTCPSocket();
    connectTCPSocket(socketFileDescriptor, serverIP, port);

    sendSocketText(socketFileDescriptor, firstFraction);
    sendSocketText(socketFileDescriptor, operationSign);
}

```

```

        sendSocketText(socketFileDescriptor, secondFraction);

        char* info = NULL;
        receiveSocketText(socketFileDescriptor, &info);
        printf("\n%s\n", info);
        free(info);

        close(socketFileDescriptor);
    }
    return 0;
}

```

На листинге 4 представлен код программы server.c.

Листинг 4 – Код серверной части программы

```

#include <string.h>
#include <stdio.h>
#include <unistd.h>
#include <stdbool.h>
#include <ctype.h>
#include <stdlib.h>

#include "algorithm.h"
#include "server.h"
#include "socketOperations.h"

/*! \brief Checks if the string is a natural number
 *
 * \param[in] string String that may be a number or not
 *
 * \return true or false
 */
bool checkNat(char* string)
{
    for (int i = 0; string[i] != '\0'; i++)
        if (!isdigit(string[i]))
            return false;

    if (strtol(string, NULL, 10) <= 0)
        return false;
    return true;
}

```

```

/*! \brief Server main function
 * \param[in] argc  Number of command line arguments
 * \param[in] argv  An array of command line arguments.
 *                  argv[0] - the program name,
 *                  argv[1] - the port number.
 * \return Integer 0 upon exit success,
 *                  or EXIT_FAILURE otherwise.
 */
int main(int argc, const char* argv[])
{
    char* socketFirstFraction = NULL;
    char* socketOperation = NULL;
    char* socketSecondFraction = NULL;

    fractionInfo_t firstFraction;
    fractionInfo_t secondFraction;
    fractionInfo_t result;

    if (argc != 2)
    {
        puts("Port number expected.\n");
        return EXIT_FAILURE;
    }

    if (!checkNat((char*) argv[1]))
    {
        puts("Incorrect port number.\n");
        return EXIT_FAILURE;
    }

    puts("Server is running.");

    char* port = (char*) argv[1];

    int socketFileDescriptor = createServerTCPSocket();

    bindTCPSocket(socketFileDescriptor, port);

    serverListen(socketFileDescriptor);
    puts("Server is listening.");

    int clientSocketFileDescriptor;

```

```

while (true)
{
    clientSocketFileDescriptor = acceptTCPSocket(socketFileDescriptor);
    printf("The socket has been connected to the server.\n");

    receiveSocketText(clientSocketFileDescriptor, &socketFirstFraction);
    receiveSocketText(clientSocketFileDescriptor, &socketOperation);
    receiveSocketText(clientSocketFileDescriptor, &socketSecondFraction);

    firstFraction = makeIntoFraction(socketFirstFraction);
    secondFraction = makeIntoFraction(socketSecondFraction);

    if (firstFraction.isWrong || secondFraction.isWrong)
    {
        puts("Incorrect fraction information!");
        continue;
    }

    if (strcmp(socketOperation, "+") == 0 || strcmp(socketOperation, "-") ==
0 ||
        strcmp(socketOperation, "/") == 0 || strcmp(socketOperation, "*") ==
0)
    {
        result = calculate(firstFraction, secondFraction, socketOperation);

        if (result.isNegative)
            printf("-");
        if (result.type == COMMON)
            printf("Result: %d/%d\n", result.firstPart, result.secondPart);
        else
            printf("Result: %d.%d\n", result.firstPart, result.secondPart);
    }
    else if (compare(firstFraction, secondFraction, socketOperation))
        puts("true");
    else
        puts("false");

    free(socketFirstFraction);
    free(socketOperation);
    free(socketSecondFraction);

    close(clientSocketFileDescriptor);

```

```

    }
    close(socketFileDescriptor);
    puts("The server stopped working");
    return 0;
}

```

4 Содержимое файла configure

На листинге 5 представлено содержимое configure.

Листинг 4 – Configure

```

#!/bin/sh
# Guess values for system-dependent variables and create Makefiles.
# Generated by GNU Autoconf 2.69 for FULL-PACKAGE-NAME VERSION.
#
# Report bugs to <BUG-REPORT-ADDRESS>.
#
#
# Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.
#
#
# This configure script is free software; the Free Software Foundation
# gives unlimited permission to copy, distribute and modify it.
## ----- ##
## M4sh Initialization. ##
## ----- ##

# Be more Bourne compatible
DUALCASE=1; export DUALCASE # for MKS sh
if test -n "${ZSH_VERSION+set}" && (emulate sh) >/dev/null 2>&1; then :
  emulate sh
  NULLCMD=:
  # Pre-4.2 versions of Zsh do word splitting on ${1+"$@"}, which
  # is contrary to our usage.  Disable this feature.
  alias -g ' ${1+"$@"}'=' "$@" '
  setopt NO_GLOB_SUBST
else
  case `(set -o) 2>/dev/null` in #(

```



```

fi
export as_echo_body
as_echo='sh -c $as_echo_body as_echo'
fi

# The user is always right.
if test "${PATH_SEPARATOR+set}" != set; then
    PATH_SEPARATOR=:
    (PATH='/bin;/bin'; FPATH=$PATH; sh -c :) >/dev/null 2>&1 && {
        (PATH='/bin:/bin'; FPATH=$PATH; sh -c :) >/dev/null 2>&1 ||
            PATH_SEPARATOR=';'
    }
fi

# IFS
# We need space, tab and new line, in precisely that order. Quoting is
# there to prevent editors from complaining about space-tab.
# (If _AS_PATH_WALK were called with IFS unset, it would disable word
# splitting by setting IFS to empty value.)
IFS=" " $as_nl

# Find who we are. Look in the path if we contain no directory separator.
as_myself=
case $0 in
    *[\ \/\]* ) as_myself=$0 ;;
    *) as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
    for as_dir in $PATH
    do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        test -r "$as_dir/$0" && as_myself=$as_dir/$0 && break
    done
    IFS=$as_save_IFS

    ;;
esac

# We did not find ourselves, most probably we were run as `sh COMMAND'
# in which case we are not to be found in the path.
if test "x$as_myself" = x; then
    as_myself=$0
fi

```

```

if test ! -f "$as_myself"; then
  $as_echo "$as_myself: error: cannot find myself; rerun with an absolute file
name" >&2
  exit 1
fi

# Unset variables that we do not need and which cause bugs (e.g. in
# pre-3.0 UWIN ksh). But do not cause bugs in bash 2.01; the "|| exit 1"
# suppresses any "Segmentation fault" message there. '(' could
# trigger a bug in pdksh 5.2.14.
for as_var in BASH_ENV ENV MAIL MAILPATH
do eval test x\${$as_var+set} = xset \
  && ( (unset $as_var) || exit 1) >/dev/null 2>&1 && unset $as_var || :
done
PS1='$ '
PS2='> '
PS4='+ '

# NLS nuisances.
LC_ALL=C
export LC_ALL
LANGUAGE=C
export LANGUAGE

# CDPATH.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# Use a proper internal environment variable to ensure we don't fall
# into an infinite loop, continuously re-executing ourselves.
if test x"${_as_can_reexec}" != xno && test "x$CONFIG_SHELL" != x; then
  _as_can_reexec=no; export _as_can_reexec;
  # We cannot yet assume a decent shell, so we have to provide a
# neutralization value for shells without unset; and this also
# works around shells that cannot unset nonexistent variables.
# Preserve -v and -x to the replacement shell.
BASH_ENV=/dev/null
ENV=/dev/null
(unset BASH_ENV) >/dev/null 2>&1 && unset BASH_ENV ENV
case $- in # (((
  *v*x* | *x*v* ) as_opts=-vx ;;
  *v* ) as_opts=-v ;;
  *x* ) as_opts=-x ;;

```

```

* ) as_opts= ;;
esac
exec $CONFIG_SHELL $as_opts "$as_myself" ${1+"$@"}
# Admittedly, this is quite paranoid, since all the known shells bail
# out after a failed `exec'.
$as_echo "$0: could not re-execute with $CONFIG_SHELL" >&2
as_fn_exit 255
fi

# We don't want this to propagate to other subprocesses.
{ _as_can_reexec=; unset _as_can_reexec;}
if test "x$CONFIG_SHELL" = x; then
  as_bourne_compatible="if test -n \"\${ZSH_VERSION+set}\" && (emulate sh)
>/dev/null 2>&1; then :
  emulate sh
  NULLCMD=:
  # Pre-4.2 versions of Zsh do word splitting on \"\${1+\"$@\"}\", which
  # is contrary to our usage. Disable this feature.
  alias -g \"\${1+\"$@\"}\"='\"$@\"'
  setopt NO_GLOB_SUBST
else
  case \"(set -o) 2>/dev/null\" in #(
    *posix*) :
      set -o posix ;; #(
    *) :
      ;;
esac
fi
"

as_required="as_fn_return () { (exit \$1); }
as_fn_success () { as_fn_return 0; }
as_fn_failure () { as_fn_return 1; }
as_fn_ret_success () { return 0; }
as_fn_ret_failure () { return 1; }

exitcode=0
as_fn_success || { exitcode=1; echo as_fn_success failed.; }
as_fn_failure && { exitcode=1; echo as_fn_failure succeeded.; }
as_fn_ret_success || { exitcode=1; echo as_fn_ret_success failed.; }
as_fn_ret_failure && { exitcode=1; echo as_fn_ret_failure succeeded.; }
if ( set x; as_fn_ret_success y && test x = \"\$1\" ); then :

else

```

```

    exitcode=1; echo positional parameters were not saved.
fi
test x\$exitcode = x0 || exit 1
test -x / || exit 1"
    as_suggested=""
as_lineno_1="";as_suggested=$as_suggested$LINENO;as_suggested=$as_suggested"
as_lineno_1a=\$LINENO
    as_lineno_2="";as_suggested=$as_suggested$LINENO;as_suggested=$as_suggested"
as_lineno_2a=\$LINENO
    eval 'test \"x\$as_lineno_1'\$as_run'\" != \"x\$as_lineno_2'\$as_run'\" &&
    test \"x\`expr \$as_lineno_1'\$as_run' + 1\`\" = \"x\$as_lineno_2'\$as_run'\"'
|| exit 1
test \$(( 1 + 1 )) = 2 || exit 1"
    if (eval "$as_required") 2>/dev/null; then :
        as_have_required=yes
    else
        as_have_required=no
    fi
    if test x$as_have_required = xyes && (eval "$as_suggested") 2>/dev/null; then :

else
    as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
as_found=false
for as_dir in /bin$PATH_SEPARATOR/usr/bin$PATH_SEPARATOR$PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    as_found=:
    case $as_dir in #(
        /*)
            for as_base in sh bash ksh sh5; do
                # Try only shells that exist, to save several forks.
                as_shell=$as_dir/$as_base
                if { test -f "$as_shell" || test -f "$as_shell.exe"; } &&
                    { $as_echo "$as_bourne_compatible"$as_required" | as_run=a
"$as_shell"; } 2>/dev/null; then :
                    CONFIG_SHELL=$as_shell as_have_required=yes
                        if { $as_echo "$as_bourne_compatible"$as_suggested" | as_run=a
"$as_shell"; } 2>/dev/null; then :
                            break 2
                        fi
                    fi
fi
fi

```

```

        done;;
    esac
    as_found=false
done
$as_found || { if { test -f "$SHELL" || test -f "$SHELL.exe"; } &&
    { $as_echo "$as_bourne_compatible""$as_required" | as_run=a "$SHELL";
} 2>/dev/null; then :
    CONFIG_SHELL=$SHELL as_have_required=yes
fi; }
IFS=$as_save_IFS

    if test "x$CONFIG_SHELL" != x; then :
    export CONFIG_SHELL
        # We cannot yet assume a decent shell, so we have to provide a
# neutralization value for shells without unset; and this also
# works around shells that cannot unset nonexistent variables.
# Preserve -v and -x to the replacement shell.
BASH_ENV=/dev/null
ENV=/dev/null
(unset BASH_ENV) >/dev/null 2>&1 && unset BASH_ENV ENV
case $- in # (((
    *v*x* | *x*v* ) as_opts=-vx ;;
    *v* ) as_opts=-v ;;
    *x* ) as_opts=-x ;;
    * ) as_opts= ;;
esac
exec $CONFIG_SHELL $as_opts "$as_myself" ${1+"$@"}
# Admittedly, this is quite paranoid, since all the known shells bail
# out after a failed `exec'.
$as_echo "$0: could not re-execute with $CONFIG_SHELL" >&2
exit 255
fi

    if test x$as_have_required = xno; then :
$as_echo "$0: This script requires a shell more modern than all"
$as_echo "$0: the shells that I found on your system."
    if test x${ZSH_VERSION+set} = xset ; then
        $as_echo "$0: In particular, zsh $ZSH_VERSION has bugs and should"
        $as_echo "$0: be upgraded to zsh 4.3.4 or later."
    else
        $as_echo "$0: Please tell bug-autoconf@gnu.org and BUG-REPORT-ADDRESS

```

```

$0: about your system, including any error possibly output
$0: before this message. Then install a modern shell, or
$0: manually run the script under such a shell if you do
$0: have one."
    fi
    exit 1
fi
fi
fi
SHELL=${CONFIG_SHELL-/bin/sh}
export SHELL
# Unset more variables known to interfere with behavior of common tools.
CLICOLOR_FORCE= GREP_OPTIONS=
unset CLICOLOR_FORCE GREP_OPTIONS

## ----- ##
## M4sh Shell Functions. ##
## ----- ##
# as_fn_unset VAR
# -----
# Portably unset VAR.
as_fn_unset ()
{
    { eval $1=; unset $1;}
}
as_unset=as_fn_unset

# as_fn_set_status STATUS
# -----
# Set $? to STATUS, without forking.
as_fn_set_status ()
{
    return $1
} # as_fn_set_status

# as_fn_exit STATUS
# -----
# Exit the shell with STATUS, even in a "trap 0" or "set -e" context.
as_fn_exit ()
{
    set +e
    as_fn_set_status $1

```

```

    exit $1
} # as_fn_exit

# as_fn_mkdir_p
# -----
# Create "$as_dir" as a directory, including parents if necessary.
as_fn_mkdir_p ()
{
    case $as_dir in #(
    -*) as_dir=./$as_dir;;
    esac
    test -d "$as_dir" || eval $as_mkdir_p || {
        as_dirs=
        while :; do
            case $as_dir in #(
            *\'*) as_qdir=`$as_echo "$as_dir" | sed "s/'/'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\'/g"`;; #'(
            *) as_qdir=$as_dir;;
            esac
            as_dirs="'$as_qdir' $as_dirs"
            as_dir=`$as_dirname -- "$as_dir" ||
$as_expr X"$as_dir" : 'X\(.^[^/]\)\/*[^/][^/]*/*$' \| \
X"$as_dir" : 'X\(/\/\)[^/]' \| \
X"$as_dir" : 'X\(/\/\)$' \| \
X"$as_dir" : 'X\(/\/)' \| . 2>/dev/null ||
$as_echo X"$as_dir" |
sed '/^X\(.^[^/]\)\/*[^/][^/]*/*$/{
    s//\1/
    q
}
/^X\(\\/\)\)[^/].*$/ {
    s//\1/
    q
}
/^X\(\\/\)\)$/{
    s//\1/
    q
}
/^X\(\\/\).*/ {
    s//\1/
    q
}
}
```

```

        s/.*\/./; q'`
    test -d "$sas_dir" && break
done
test -z "$sas_dirs" || eval "mkdir $sas_dirs"
} || test -d "$sas_dir" || as_fn_error $? "cannot create directory $sas_dir"

} # as_fn_mkdir_p

# as_fn_executable_p FILE
# -----
# Test if FILE is an executable regular file.
as_fn_executable_p ()
{
    test -f "$1" && test -x "$1"
} # as_fn_executable_p
# as_fn_append VAR VALUE
# -----
# Append the text in VALUE to the end of the definition contained in VAR. Take
# advantage of any shell optimizations that allow amortized linear growth over
# repeated appends, instead of the typical quadratic growth present in naive
# implementations.
if (eval "as_var=1; as_var+=2; test x\$as_var = x12") 2>/dev/null; then :
    eval 'as_fn_append ()
    {
        eval $1+=\$2
    }'
else
    as_fn_append ()
    {
        eval $1=\${$1}\$2
    }
fi # as_fn_append

# as_fn_arith ARG...
# -----
# Perform arithmetic evaluation on the ARGs, and store the result in the
# global $as_val. Take advantage of shells that can avoid forks. The arguments
# must be portable across $(( )) and expr.
if (eval "test \$(( 1 + 1 )) = 2") 2>/dev/null; then :
    eval 'as_fn_arith ()
    {

```



```

        as_val=$(( $* ))
    }'
else
    as_fn_arith ()
    {
        as_val=`expr "$@" || test $? -eq 1`
    }
fi # as_fn_arith

# as_fn_error STATUS ERROR [LINENO LOG_FD]
# -----
# Output "`basename $0`: error: ERROR" to stderr. If LINENO and LOG_FD are
# provided, also output the error to LOG_FD, referencing LINENO. Then exit the
# script with STATUS, using 1 if that was 0.
as_fn_error ()
{
    as_status=$1; test $as_status -eq 0 && as_status=1
    if test "$4"; then
        as_lineno=${as_lineno-"$3"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
        $as_echo "$as_me:${as_lineno-$LINENO}: error: $2" >&$4
    fi
    $as_echo "$as_me: error: $2" >&2
    as_fn_exit $as_status
} # as_fn_error

if expr a : '\(a\)' >/dev/null 2>&1 &&
    test "X`expr 00001 : '.*\(...\)`" = X001; then
    as_expr=expr
else
    as_expr=false
fi

if (basename -- /) >/dev/null 2>&1 && test "X`basename -- / 2>&1`" = "X/"; then
    as_basename=basename
else
    as_basename=false
fi

if (as_dir=`dirname -- /` && test "X$as_dir" = X/) >/dev/null 2>&1; then
    as_dirname=dirname
else

```

```

    as_dirname=false
fi

as_me=`$as_basename -- "$0" ||
$as_expr X/"$0" : '.*\/([^\] [^\]*\)/ *$' \|| \
    X"$0" : 'X\(/\/\) $' \|| \
    X"$0" : 'X\(/\/\) ' \|| . 2>/dev/null ||
$as_echo X/"$0" |
    sed '/^.*\/([^\] [^\]*\)/ *$/{
        s//\1/
        q
    }
/^X\/\(\\/\/\) $/{
    s//\1/
    q
}
/^X\/\(\\/\/\) .*$/{
    s//\1/
    q
}
s/.*\/./; q'`

# Avoid depending upon Character Ranges.
as_cr_letters='abcdefghijklmnopqrstuvwxyz'
as_cr_LETTERS='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
as_cr_Letters=$as_cr_letters$as_cr_LETTERS
as_cr_digits='0123456789'
as_cr_alnum=$as_cr_Letters$as_cr_digits


as_lineno_1=$LINENO as_lineno_1a=$LINENO
as_lineno_2=$LINENO as_lineno_2a=$LINENO
eval 'test "x$as_lineno_1'$as_run'" != "x$as_lineno_2'$as_run'" &&
test "x`expr $as_lineno_1'$as_run' + 1`" = "x$as_lineno_2'$as_run'" || {
# Blame Lee E. McMahon (1931-1989) for sed's syntax. :-)
sed -n '
    p
    /[$]LINENO/=
' <$as_myself |
    sed '
        s/[$]LINENO.*&-/
        t lineno

```

```

b
:lineno
N
:loop
s/[${LINENO}\([^'$as_cr_alnum'_]*\n\)\(.*\)/\2\1\2/
t loop
s/-\n.*//
' >$as_me.lineno &&
chmod +x "$as_me.lineno" ||
{ $as_echo "$as_me: error: cannot create $as_me.lineno; rerun with a POSIX
shell" >&2; as_fn_exit 1; }

# If we had to re-execute with $CONFIG_SHELL, we're ensured to have
# already done that, so ensure we don't try to do so again and fall
# in an infinite loop. This has already happened in practice.
_as_can_reexec=no; export _as_can_reexec
# Don't try to exec as it changes ${0}, causing all sort of problems
# (the dirname of ${0} is not the place where we might find the
# original and so on. Autoconf is especially sensitive to this).
. "$as_me.lineno"
# Exit status is that of the last command.
exit
}

ECHO_C= ECHO_N= ECHO_T=
case `echo -n x` in #((((
-n*)
  case `echo 'xy\c'` in
  *c*) ECHO_T='  ';; # ECHO_T is single tab character.
  xy) ECHO_C='\c';;
  *) echo `echo ksh88 bug on AIX 6.1` > /dev/null
     ECHO_T='  ';;
  esac;;
*)
  ECHO_N='-n';;
esac

rm -f conf$$ conf$$exe conf$$file
if test -d conf$$dir; then
  rm -f conf$$dir/conf$$file
else
  rm -f conf$$dir

```

```

mkdir conf$$$.dir 2>/dev/null
fi
if (echo >conf$$$$.file) 2>/dev/null; then
  if ln -s conf$$$$.file conf$$$ 2>/dev/null; then
    as_ln_s='ln -s'
    # ... but there are two gotchas:
    # 1) On MSYS, both `ln -s file dir' and `ln file dir' fail.
    # 2) DJGPP < 2.04 has no symlinks; `ln -s' creates a wrapper executable.
    # In both cases, we have to default to `cp -pR'.
    ln -s conf$$$$.file conf$$$$.dir 2>/dev/null && test ! -f conf$$$$.exe ||
      as_ln_s='cp -pR'
  elif ln conf$$$$.file conf$$$ 2>/dev/null; then
    as_ln_s=ln
  else
    as_ln_s='cp -pR'
  fi
else
  as_ln_s='cp -pR'
fi
rm -f conf$$$ conf$$$$.exe conf$$$$.dir/conf$$$$.file conf$$$$.file
rmdir conf$$$$.dir 2>/dev/null

if mkdir -p . 2>/dev/null; then
  as_mkdir_p='mkdir -p "$as_dir"'
else
  test -d ./-p && rmdir ./-p
  as_mkdir_p=false
fi

as_test_x='test -x'
as_executable_p=as_fn_executable_p

# Sed expression to map a string onto a valid CPP name.
as_tr_cpp="eval sed 'y%*$as_cr_letters%P$as_cr_LETTERS%;s%[^_$as_cr_alnum]%_g'"

# Sed expression to map a string onto a valid variable name.
as_tr_sh="eval sed 'y%*+%pp%;s%[^_$as_cr_alnum]%_g'"

test -n "$DJDIR" || exec 7<&0 </dev/null
exec 6>&1

```

```

# Name of the host.
# hostname on some systems (SVR3.2, old GNU/Linux) returns a bogus exit status,
# so uname gets run too.
ac_hostname=`(hostname || uname -n) 2>/dev/null | sed 1q`

#
# Initializations.
#
ac_default_prefix=/usr/local
ac_clean_files=
ac_config_libobj_dir=.
LIBOBJS=
cross_compiling=no
subdirs=
MFLAGS=
MAKEFLAGS=

# Identity of this package.
PACKAGE_NAME='FULL-PACKAGE-NAME'
PACKAGE_TARNAME='full-package-name'
PACKAGE_VERSION='VERSION'
PACKAGE_STRING='FULL-PACKAGE-NAME VERSION'
PACKAGE_BUGREPORT='BUG-REPORT-ADDRESS'
PACKAGE_URL=''

ac_unique_file="algorithm.c"
# Factoring default headers for most tests.
ac_includes_default="\
#include <stdio.h>
#ifdef HAVE_SYS_TYPES_H
# include <sys/types.h>
#endif
#ifdef HAVE_SYS_STAT_H
# include <sys/stat.h>
#endif
#ifdef STDC_HEADERS
# include <stdlib.h>
# include <stddef.h>
#else
# ifdef HAVE_STDLIB_H
# include <stdlib.h>
# endif
#endif

```

```

#endif
#ifdef HAVE_STRING_H
# if !defined STDC_HEADERS && defined HAVE_MEMORY_H
#   include <memory.h>
# endif
# include <string.h>
#endif
#ifdef HAVE_STRINGS_H
# include <strings.h>
#endif
#ifdef HAVE_INTTYPES_H
# include <inttypes.h>
#endif
#ifdef HAVE_STDINT_H
# include <stdint.h>
#endif
#ifdef HAVE_UNISTD_H
# include <unistd.h>
#endif"

```

```

ac_subst_vars='LTLIBOBJS
LIBOBJS
EGREP
GREP
CPP
ac_ct_CC
CFLAGS
CC
OBJEXT
EXEEXT
ac_ct_CXX
CPPFLAGS
LDLFLAGS
CXXFLAGS
CXX
target_alias
host_alias
build_alias
LIBS
ECHO_T
ECHO_N
ECHO_C

```

```
DEFS
mandir
localedir
libdir
psdir
pdfdir
dvidir
htmldir
infodir
docdir
oldincludedir
includedir
runstatedir
localstatedir
sharedstatedir
sysconfdir
datadir
datarootdir
libexecdir
sbindir
bindir
program_transform_name
prefix
exec_prefix
PACKAGE_URL
PACKAGE_BUGREPORT
PACKAGE_STRING
PACKAGE_VERSION
PACKAGE_TARNAME
PACKAGE_NAME
PATH_SEPARATOR
SHELL'
ac_subst_files=''
ac_user_opts='
enable_option_checking
'
    ac_precious_vars='build_alias
host_alias
target_alias
CXX
CXXFLAGS
LDFLAGS
```

```

LIBS
CPPFLAGS
CCC
CC
CFLAGS
CPP'

# Initialize some variables set by options.
ac_init_help=
ac_init_version=false
ac_unrecognized_opts=
ac_unrecognized_sep=
# The variables have the same names as the options, with
# dashes changed to underlines.
cache_file=/dev/null
exec_prefix=NONE
no_create=
no_recursion=
prefix=NONE
program_prefix=NONE
program_suffix=NONE
program_transform_name=s,x,x,
silent=
site=
srcdir=
verbose=
x_includes=NONE
x_libraries=NONE

# Installation directory options.
# These are left unexpanded so users can "make install exec_prefix=/foo"
# and all the variables that are supposed to be based on exec_prefix
# by default will actually change.
# Use braces instead of parens because sh, perl, etc. also accept them.
# (The list follows the same order as the GNU Coding Standards.)
bindir='${exec_prefix}/bin'
sbindir='${exec_prefix}/sbin'
libexecdir='${exec_prefix}/libexec'
datarootdir='${prefix}/share'
datadir='${datarootdir}'
sysconfdir='${prefix}/etc'

```



```

sharedstatedir='${prefix}/com'
localstatedir='${prefix}/var'
runstatedir='${localstatedir}/run'
includedir='${prefix}/include'
oldincludedir='/usr/include'
docdir='${datarootdir}/doc/${PACKAGE_TARNAME}'
infodir='${datarootdir}/info'
htmldir='${docdir}'
dvidir='${docdir}'
pdfdir='${docdir}'
psdir='${docdir}'
libdir='${exec_prefix}/lib'
localedir='${datarootdir}/locale'
mandir='${datarootdir}/man'

ac_prev=
ac_dashdash=
for ac_option
do
    # If the previous option needs an argument, assign it.
    if test -n "$ac_prev"; then
        eval $ac_prev=\$ac_option
        ac_prev=
        continue
    fi

    case $ac_option in
        *=?*) ac_optarg=`expr "X$ac_option" : '^[^=]*\(.*\)'` ;;
        *)     ac_optarg= ;;
        *)     ac_optarg=yes ;;
    esac

    # Accept the important Cygnus configure options, so we can diagnose typos.

    case $ac_dashdash$ac_option in
        --)
            ac_dashdash=yes ;;

        -bindir | --bindir | --bindi | --bind | --bin | --bi)
            ac_prev=bindir ;;
        -bindir=* | --bindir=* | --bindi=* | --bind=* | --bin=* | --bi=*)
            bindir=$ac_optarg ;;
    esac
done

```

```

-build | --build | --buil | --bui | --bu)
    ac_prev=build_alias ;;
-build=* | --build=* | --buil=* | --bui=* | --bu=*)
    build_alias=$ac_optarg ;;

-cache-file | --cache-file | --cache-fil | --cache-fi \
| --cache-f | --cache- | --cache | --cach | --cac | --ca | --c)
    ac_prev=cache_file ;;
-cache-file=* | --cache-file=* | --cache-fil=* | --cache-fi=* \
| --cache-f=* | --cache-=* | --cache=* | --cach=* | --cac=* | --ca=* | --c=*)
    cache_file=$ac_optarg ;;

--config-cache | -C)
    cache_file=config.cache ;;

-datadir | --datadir | --datadi | --datad)
    ac_prev=datadir ;;
-datadir=* | --datadir=* | --datadi=* | --datad=*)
    datadir=$ac_optarg ;;

-datarootdir | --datarootdir | --datarootdi | --datarootd | --dataroot \
| --dataroo | --dataro | --datar)
    ac_prev=datarootdir ;;
-datarootdir=* | --datarootdir=* | --datarootdi=* | --datarootd=* \
| --dataroot=* | --dataroo=* | --dataro=* | --datar=*)
    datarootdir=$ac_optarg ;;

-disable-* | --disable-*)
    ac_useropt=`expr "x$ac_option" : 'x-*disable-\(.*\)'`
    # Reject names that are not valid shell variable names.
    expr "x$ac_useropt" : ".*[^-+._$as_cr_alnum]" >/dev/null &&
    as_fn_error $? "invalid feature name: $ac_useropt"
    ac_useropt_orig=$ac_useropt
    ac_useropt=`$as_echo "$ac_useropt" | sed 's/[-+.]/_/g'`
    case $ac_user_opts in
        *)
            "enable_$ac_useropt"
    *) ;;
        *)
            ac_unrecognized_opts="$ac_unrecognized_opts$ac_unrecognized_sep--
disable-$ac_useropt_orig"
            ac_unrecognized_sep=', ';;

```

```

esac

eval enable_${ac_useropt}=no ;;

-docdir | --docdir | --docdi | --doc | --do)
    ac_prev=docdir ;;
-docdir=* | --docdir=* | --docdi=* | --doc=* | --do=*)
    docdir=${ac_optarg} ;;

-dvidir | --dvidir | --dvidi | --dvid | --dvi | --dv)
    ac_prev=dvidir ;;
-dvidir=* | --dvidir=* | --dvidi=* | --dvid=* | --dvi=* | --dv=*)
    dvidir=${ac_optarg} ;;

-enable-* | --enable-*)
    ac_useropt=`expr "x${ac_option}" : 'x-*enable-\([^=]*\) '`
    # Reject names that are not valid shell variable names.
    expr "x${ac_useropt}" : ".*[^\+._$as_cr_alnum]" >/dev/null &&
        as_fn_error $? "invalid feature name: ${ac_useropt}"
    ac_useropt_orig=${ac_useropt}
    ac_useropt=`$as_echo "${ac_useropt}" | sed 's/[^\+._]/_/g'`
    case $ac_user_opts in
        *)
            "enable_${ac_useropt}"
            "*) ;;
            *)          ac_unrecognized_opts="$ac_unrecognized_opts$ac_unrecognized_sep--
enable-${ac_useropt_orig}"
                ac_unrecognized_sep=', ';;
    esac
    eval enable_${ac_useropt}=\${ac_optarg} ;;

-exec-prefix | --exec_prefix | --exec-prefix | --exec-prefi \
| --exec-pref | --exec-pre | --exec-pr | --exec-p | --exec- \
| --exec | --exe | --ex)
    ac_prev=exec_prefix ;;
-exec-prefix=* | --exec_prefix=* | --exec-prefix=* | --exec-prefi=* \
| --exec-pref=* | --exec-pre=* | --exec-pr=* | --exec-p=* | --exec-=* \
| --exec=* | --exe=* | --ex=*)
    exec_prefix=${ac_optarg} ;;

-gas | --gas | --ga | --g)
    # Obsolete; use --with-gas.
    with_gas=yes ;;

```

```

-help | --help | --hel | --he | -h)
    ac_init_help=long ;;
-help=r* | --help=r* | --hel=r* | --he=r* | -hr*)
    ac_init_help=recursive ;;
-help=s* | --help=s* | --hel=s* | --he=s* | -hs*)
    ac_init_help=short ;;

-host | --host | --hos | --ho)
    ac_prev=host_alias ;;
-host=* | --host=* | --hos=* | --ho=*)
    host_alias=$ac_optarg ;;

-htmldir | --htmldir | --html di | --html d | --html | --htm | --ht)
    ac_prev=htmldir ;;
-htmldir=* | --htmldir=* | --html di=* | --html d=* | --html=* | --htm=* \
| --ht=*)
    htmldir=$ac_optarg ;;

-includedir | --includedir | --includedi | --included | --include \
| --includ | --inclu | --incl | --inc)
    ac_prev=includedir ;;
-includedir=* | --includedir=* | --includedi=* | --included=* | --include=* \
| --includ=* | --inclu=* | --incl=* | --inc=*)
    includedir=$ac_optarg ;;

-infodir | --infodir | --infodi | --infod | --info | --inf)
    ac_prev=infodir ;;
-infodir=* | --infodir=* | --infodi=* | --infod=* | --info=* | --inf=*)
    infodir=$ac_optarg ;;

-libdir | --libdir | --libdi | --libd)
    ac_prev=libdir ;;
-libdir=* | --libdir=* | --libdi=* | --libd=*)
    libdir=$ac_optarg ;;

-libexecdir | --libexecdir | --libexecdi | --libexecd | --libexec \
| --libexe | --libex | --libe)
    ac_prev=libexecdir ;;
-libexecdir=* | --libexecdir=* | --libexecdi=* | --libexecd=* | --libexec=* \
| --libexe=* | --libex=* | --libe=*)
    libexecdir=$ac_optarg ;;

```

```

-localedir | --localedir | --localedi | --localed | --locale)
    ac_prev=localedir ;;
-localedir=* | --localedir=* | --localedi=* | --localed=* | --locale=*)
    localedir=$ac_optarg ;;

-localstatedir | --localstatedir | --localstatedi | --localstated \
| --localstate | --localstat | --localsta | --localst | --locals)
    ac_prev=localstatedir ;;
-localstatedir=* | --localstatedir=* | --localstatedi=* | --localstated=* \
| --localstate=* | --localstat=* | --localsta=* | --localst=* | --locals=*)
    localstatedir=$ac_optarg ;;

-mandir | --mandir | --mandi | --mand | --man | --ma | --m)
    ac_prev=mandir ;;
-mandir=* | --mandir=* | --mandi=* | --mand=* | --man=* | --ma=* | --m=*)
    mandir=$ac_optarg ;;

-nfp | --nfp | --nf)
    # Obsolete; use --without-fp.
    with_fp=no ;;

-no-create | --no-create | --no-creat | --no-crea | --no-cre \
| --no-cr | --no-c | -n)
    no_create=yes ;;

-no-recursion | --no-recursion | --no-recursio | --no-recursi \
| --no-recurs | --no-recur | --no-recu | --no-rec | --no-re | --no-r)
    no_recursion=yes ;;

-oldincludedir | --oldincludedir | --oldincludedi | --oldincluded \
| --oldinclude | --oldinclud | --oldinclu | --oldincl | --oldinc \
| --oldin | --oldi | --old | --ol | --o)
    ac_prev=oldincludedir ;;
-oldincludedir=* | --oldincludedir=* | --oldincludedi=* | --oldincluded=* \
| --oldinclude=* | --oldinclud=* | --oldinclu=* | --oldincl=* | --oldinc=* \
| --oldin=* | --oldi=* | --old=* | --ol=* | --o=*)
    oldincludedir=$ac_optarg ;;

-prefix | --prefix | --prefi | --pref | --pre | --pr | --p)
    ac_prev=prefix ;;
-prefix=* | --prefix=* | --prefi=* | --pref=* | --pre=* | --pr=* | --p=*)

```

```

prefix=$ac_optarg ;;

-program-prefix | --program-prefix | --program-prefi | --program-pref \
| --program-pre | --program-pr | --program-p)
    ac_prev=program_prefix ;;
-program-prefix=* | --program-prefix=* | --program-prefi=* \
| --program-pref=* | --program-pre=* | --program-pr=* | --program-p=*)
    program_prefix=$ac_optarg ;;

-program-suffix | --program-suffix | --program-suffi | --program-suff \
| --program-suf | --program-su | --program-s)
    ac_prev=program_suffix ;;
-program-suffix=* | --program-suffix=* | --program-suffi=* \
| --program-suff=* | --program-suf=* | --program-su=* | --program-s=*)
    program_suffix=$ac_optarg ;;

-program-transform-name | --program-transform-name \
| --program-transform-nam | --program-transform-na \
| --program-transform-n | --program-transform- \
| --program-transform | --program-transfor \
| --program-transfo | --program-transf \
| --program-trans | --program-tran \
| --progr-tra | --program-tr | --program-t)
    ac_prev=program_transform_name ;;
-program-transform-name=* | --program-transform-name=* \
| --program-transform-nam=* | --program-transform-na=* \
| --program-transform-n=* | --program-transform-=* \
| --program-transform=* | --program-transfor=* \
| --program-transfo=* | --program-transf=* \
| --program-trans=* | --program-tran=* \
| --progr-tra=* | --program-tr=* | --program-t=*)
    program_transform_name=$ac_optarg ;;

-pdfdir | --pdfdir | --pdfdi | --pdfd | --pdf | --pd)
    ac_prev=pdfdir ;;
-pdfdir=* | --pdfdir=* | --pdfdi=* | --pdfd=* | --pdf=* | --pd=*)
    pdfdir=$ac_optarg ;;

-psdir | --psdir | --psdi | --psd | --ps)
    ac_prev=psdir ;;
-psdir=* | --psdir=* | --psdi=* | --psd=* | --ps=*)
    psdir=$ac_optarg ;;

```

```

-q | -quiet | --quiet | --quie | --qui | --qu | --q \
| -silent | --silent | --silen | --sile | --sil)
    silent=yes ;;

-runstatedir | --runstatedir | --runstatedi | --runstated \
| --runstate | --runstat | --runsta | --runst | --runs \
| --run | --ru | --r)
    ac_prev=runstatedir ;;
-runstatedir=* | --runstatedir=* | --runstatedi=* | --runstated=* \
| --runstate=* | --runstat=* | --runsta=* | --runst=* | --runs=* \
| --run=* | --ru=* | --r=*)
    runstatedir=$ac_optarg ;;

-sbindir | --sbindir | --sbindi | --sbind | --sbin | --sbi | --sb)
    ac_prev=sbindir ;;
-sbindir=* | --sbindir=* | --sbindi=* | --sbind=* | --sbin=* \
| --sbi=* | --sb=*)
    sbindir=$ac_optarg ;;

-sharedstatedir | --sharedstatedir | --sharedstatedi \
| --sharedstated | --sharedstate | --sharedstat | --sharedsta \
| --sharedst | --shareds | --shared | --share | --shar \
| --sha | --sh)
    ac_prev=sharedstatedir ;;
-sharedstatedir=* | --sharedstatedir=* | --sharedstatedi=* \
| --sharedstated=* | --sharedstate=* | --sharedstat=* | --sharedsta=* \
| --sharedst=* | --shareds=* | --shared=* | --share=* | --shar=* \
| --sha=* | --sh=*)
    sharedstatedir=$ac_optarg ;;

-site | --site | --sit)
    ac_prev=site ;;
-site=* | --site=* | --sit=*)
    site=$ac_optarg ;;

-srcdir | --srcdir | --srcdi | --srcd | --src | --sr)
    ac_prev=srcdir ;;
-srcdir=* | --srcdir=* | --srcdi=* | --srcd=* | --src=* | --sr=*)
    srcdir=$ac_optarg ;;

-sysconfdir | --sysconfdir | --sysconfdi | --sysconfd | --sysconf \

```

```

| --syscon | --sysco | --sysc | --sys | --sy)
    ac_prev=sysconfdir ;;
-sysconfdir=* | --sysconfdir=* | --sysconfdi=* | --sysconfd=* | --sysconf=* \
| --syscon=* | --sysco=* | --sysc=* | --sys=* | --sy=*)
    sysconfdir=$ac_optarg ;;

-target | --target | --targe | --targ | --tar | --ta | --t)
    ac_prev=target_alias ;;
-target=* | --target=* | --targe=* | --targ=* | --tar=* | --ta=* | --t=*)
    target_alias=$ac_optarg ;;

-v | -verbose | --verbose | --verbos | --verbo | --verb)
    verbose=yes ;;

-version | --version | --versio | --versi | --vers | -V)
    ac_init_version=: ;;

-with-* | --with-*)
    ac_useropt=`expr "x$ac_option" : 'x-*with-\([^=]*\) '`
    # Reject names that are not valid shell variable names.
    expr "x$ac_useropt" : ".*[^-+._$as_cr_alnum]" >/dev/null &&
        as_fn_error $? "invalid package name: $ac_useropt"
    ac_useropt_orig=$ac_useropt
    ac_useropt=`$as_echo "$ac_useropt" | sed 's/[-+.]/_/g'`
    case $ac_user_opts in
        *)
"with_$ac_useropt"
    *) ;;
        *) ac_unrecognized_opts="$ac_unrecognized_opts$ac_unrecognized_sep--with-
$ac_useropt_orig"
            ac_unrecognized_sep=', ';;
    esac
    eval with_$ac_useropt=\$ac_optarg ;;

-without-* | --without-*)
    ac_useropt=`expr "x$ac_option" : 'x-*without-\(.*\) '`
    # Reject names that are not valid shell variable names.
    expr "x$ac_useropt" : ".*[^-+._$as_cr_alnum]" >/dev/null &&
        as_fn_error $? "invalid package name: $ac_useropt"
    ac_useropt_orig=$ac_useropt
    ac_useropt=`$as_echo "$ac_useropt" | sed 's/[-+.]/_/g'`
    case $ac_user_opts in

```



```

        *
"with_$ac_useropt"
*) ;;

        *)          ac_unrecognized_opts="$ac_unrecognized_opts$ac_unrecognized_sep--
without-$ac_useropt_orig"
        ac_unrecognized_sep=', ';;
    esac
    eval with_$ac_useropt=no ;;

--x)
    # Obsolete; use --with-x.
    with_x=yes ;;

-x-includes | --x-includes | --x-include | --x-includ | --x-inclu \
| --x-incl | --x-inc | --x-in | --x-i)
    ac_prev=x_includes ;;
-x-includes=* | --x-includes=* | --x-include=* | --x-includ=* | --x-inclu=* \
| --x-incl=* | --x-inc=* | --x-in=* | --x-i=*)
    x_includes=$ac_optarg ;;

-x-libraries | --x-libraries | --x-librarie | --x-librari \
| --x-librar | --x-libra | --x-libr | --x-lib | --x-li | --x-l)
    ac_prev=x_libraries ;;
-x-libraries=* | --x-libraries=* | --x-librarie=* | --x-librari=* \
| --x-librar=* | --x-libra=* | --x-libr=* | --x-lib=* | --x-li=* | --x-l=*)
    x_libraries=$ac_optarg ;;

-*) as_fn_error $? "unrecognized option: \`$ac_option'
Try \`$0 --help' for more information"
    ;;

*=*)
    ac_envvar=`expr "x$ac_option" : 'x\[^\=]*\)' = ' `
    # Reject names that are not valid shell variable names.
    case $ac_envvar in #(
        '' | [0-9]* | *[^$_$as_cr_alnum]* )
        as_fn_error $? "invalid variable name: \`$ac_envvar'" ;;
    esac
    eval $ac_envvar=\$ac_optarg
    export $ac_envvar ;;

*)

```

```

# FIXME: should be removed in autoconf 3.0.
$as_echo "$as_me: WARNING: you should use --build, --host, --target" >&2
expr "x$sac_option" : ".*[^-._$as_cr_alnum]" >/dev/null &&
$as_echo "$as_me: WARNING: invalid host type: $sac_option" >&2
:           "${build_alias=$sac_option}"           "${host_alias=$sac_option}"
${target_alias=$sac_option}"
;;

esac
done

if test -n "$sac_prev"; then
  ac_option=--`echo $sac_prev | sed 's/_/-/g'`
  as_fn_error $? "missing argument to $sac_option"
fi

if test -n "$sac_unrecognized_opts"; then
  case $enable_option_checking in
    no) ;;
    fatal) as_fn_error $? "unrecognized options: $sac_unrecognized_opts" ;;
    *)
      $as_echo "$as_me: WARNING: unrecognized options: $sac_unrecognized_opts"
>&2 ;;
  esac
fi

# Check all directory arguments for consistency.
for ac_var in      exec_prefix prefix bindir sbindir libexecdir datarootdir \
                  datadir sysconfdir sharedstatedir localstatedir includedir \
                  oldincludedir docdir infodir htmdir dvidir pdfdir psdir \
                  libdir localedir mandir runstatedir
do
  eval ac_val=\${$ac_var}
  # Remove trailing slashes.
  case $ac_val in
    */ )
      ac_val=`expr "X$ac_val" : 'X\([^/]\)' \| "X$ac_val" : 'X\([^*]\)'`
      eval $ac_var=\$ac_val;;
  esac
  # Be sure to have absolute directory names.
  case $ac_val in
    [\\/$]* | ?:[\\/$]* ) continue;;
    NONE | '' ) case $ac_var in *prefix ) continue;; esac;;
  esac
done

```

```

    esac
    as_fn_error $? "expected an absolute directory name for --$ac_var: $ac_val"
done

# There might be people who depend on the old broken behavior: `$host'
# used to hold the argument of --host etc.
# FIXME: To remove some day.
build=$build_alias
host=$host_alias
target=$target_alias

# FIXME: To remove some day.
if test "x$host_alias" != x; then
  if test "x$build_alias" = x; then
    cross_compiling=maybe
  elif test "x$build_alias" != "x$host_alias"; then
    cross_compiling=yes
  fi
fi

ac_tool_prefix=
test -n "$host_alias" && ac_tool_prefix=$host_alias-

test "$silent" = yes && exec 6>/dev/null

ac_pwd=`pwd` && test -n "$ac_pwd" &&
ac_ls_di=`ls -di .` &&
ac_pwd_ls_di=`cd "$ac_pwd" && ls -di .` ||
  as_fn_error $? "working directory cannot be determined"
test "X$ac_ls_di" = "X$ac_pwd_ls_di" ||
  as_fn_error $? "pwd does not report name of working directory"

# Find the source files, if location was not specified.
if test -z "$srcdir"; then
  ac_srcdir_defaulted=yes
  # Try the directory containing this script, then the parent directory.
  ac_confdir=`$as_dirname -- "$as_myself" ||
$as_expr X"$as_myself" : 'X\([^\/]\)\/*\([^\/]\)\/*\/*$' \| \
  X"$as_myself" : 'X\(/\)\([^\/]\)' \| \
  X"$as_myself" : 'X\(/\)\$' \| \

```



```

*/) srcdir=`expr "X$srcdir" : 'X\(.*[/]\)' \| "X$srcdir" : 'X\(.*\)'\`;
esac
for ac_var in $ac_precious_vars; do
    eval ac_env_${ac_var}_set=\${${ac_var}+set}
    eval ac_env_${ac_var}_value=\${${ac_var}
    eval ac_cv_env_${ac_var}_set=\${${ac_var}+set}
    eval ac_cv_env_${ac_var}_value=\${${ac_var}
done

#
# Report the --help message.
#
if test "$ac_init_help" = "long"; then
    # Omit some internal or obsolete options to make the list less imposing.
    # This message is too long to be a string in the A/UX 3.1 sh.
    cat <<_ACEOF
\`configure' configures FULL-PACKAGE-NAME VERSION to adapt to many kinds of
systems.

```

Usage: \$0 [OPTION]... [VAR=VALUE]...

To assign environment variables (e.g., CC, CFLAGS...), specify them as VAR=VALUE. See below for descriptions of some of the useful variables.

Defaults for the options are specified in brackets.

Configuration:

-h, --help	display this help and exit
--help=short	display options specific to this package
--help=recursive	display the short help of all the included packages
-V, --version	display version information and exit
-q, --quiet, --silent	do not print `checking ...' messages
--cache-file=FILE	cache test results in FILE [disabled]
-C, --config-cache	alias for `--cache-file=config.cache'
-n, --no-create	do not create output files
--srcdir=DIR	find the sources in DIR [configure dir or `..']

Installation directories:

--prefix=PREFIX	install architecture-independent files in PREFIX [<code>\$ac_default_prefix</code>]
--exec-prefix=EPREFIX	install architecture-dependent files in EPREFIX [PREFIX]

By default, `\`make install'` will install all the files in `\`$ac_default_prefix/bin'`, `\`$ac_default_prefix/lib'` etc. You can specify an installation prefix other than `\`$ac_default_prefix'` using `\`--prefix'`, for instance `\`--prefix=$HOME'`.

For better control, use the options below.

Fine tuning of the installation directories:

```
--bindir=DIR          user executables [EPREFIX/bin]
--sbindir=DIR         system admin executables [EPREFIX/sbin]
--libexecdir=DIR      program executables [EPREFIX/libexec]
--sysconfdir=DIR      read-only single-machine data [PREFIX/etc]
--sharedstatedir=DIR  modifiable architecture-independent data [PREFIX/com]
--localstatedir=DIR   modifiable single-machine data [PREFIX/var]
--runstatedir=DIR     modifiable per-process data [LOCALSTATEDIR/run]
--libdir=DIR          object code libraries [EPREFIX/lib]
--includedir=DIR      C header files [PREFIX/include]
--oldincludedir=DIR   C header files for non-gcc [/usr/include]
--datarootdir=DIR     read-only arch.-independent data root [PREFIX/share]
--datadir=DIR         read-only architecture-independent data [DATAROOTDIR]
--infodir=DIR         info documentation [DATAROOTDIR/info]
--localedir=DIR       locale-dependent data [DATAROOTDIR/locale]
--mandir=DIR          man documentation [DATAROOTDIR/man]
--docdir=DIR          documentation root
                      [DATAROOTDIR/doc/full-package-name]
--htmldir=DIR         html documentation [DOCDIR]
--dvidir=DIR          dvi documentation [DOCDIR]
--pdfdir=DIR          pdf documentation [DOCDIR]
--psdir=DIR           ps documentation [DOCDIR]
```

_ACEOF

```
cat <<\_ACEOF
```

_ACEOF

fi

```
if test -n "$ac_init_help"; then
```

```
  case $ac_init_help in
```

```
    short | recursive ) echo "Configuration of FULL-PACKAGE-NAME VERSION:";;
```

```
  esac
```

```
  cat <<\_ACEOF
```

Some influential environment variables:

CXX	C++ compiler command
CXXFLAGS	C++ compiler flags
LDFLAGS	linker flags, e.g. -L<lib dir> if you have libraries in a nonstandard directory <lib dir>
LIBS	libraries to pass to the linker, e.g. -l<library>
CPPFLAGS	(Objective) C/C++ preprocessor flags, e.g. -I<include dir> if you have headers in a nonstandard directory <include dir>
CC	C compiler command
CFLAGS	C compiler flags
CPP	C preprocessor

Use these variables to override the choices made by `configure' or to help it to find libraries and programs with nonstandard names/locations.

Report bugs to <BUG-REPORT-ADDRESS>.

_ACEOF

ac_status=\$?

fi

if test "\$ac_init_help" = "recursive"; then

If there are subdirs, report their specific --help.

for ac_dir in : \$ac_subdirs_all; do test "x\$ac_dir" = x: && continue

test -d "\$ac_dir" ||

{ cd "\$srcdir" && ac_pwd=`pwd` && srcdir=. && test -d "\$ac_dir"; } ||

continue

ac_builddir=.

case "\$ac_dir" in

.) ac_dir_suffix= ac_top_builddir_sub=. ac_top_build_prefix= ;;

*)

ac_dir_suffix=`\$as_echo "\$ac_dir" | sed 's|^\.[\|/]|'|`

A ".." for each directory in \$ac_dir_suffix.

ac_top_builddir_sub=`\$as_echo "\$ac_dir_suffix" | sed 's|/[^|/]*|/..|g;s|/||'|`

case \$ac_top_builddir_sub in

"") ac_top_builddir_sub=. ac_top_build_prefix= ;;

*) ac_top_build_prefix=\$ac_top_builddir_sub/ ;;

esac ;;

esac

ac_abs_top_builddir=\$ac_pwd

ac_abs_builddir=\$ac_pwd\$ac_dir_suffix

for backward compatibility:

```

ac_top_builddir=$ac_top_build_prefix

case $srcdir in
  .) # We are building in place.
    ac_srcdir=.
    ac_top_srcdir=$ac_top_builddir_sub
    ac_abs_top_srcdir=$ac_pwd ;;
  [\\/* | ?:[\\/*]* ) # Absolute name.
    ac_srcdir=$srcdir$ac_dir_suffix;
    ac_top_srcdir=$srcdir
    ac_abs_top_srcdir=$srcdir ;;
  *) # Relative name.
    ac_srcdir=$ac_top_build_prefix$srcdir$ac_dir_suffix
    ac_top_srcdir=$ac_top_build_prefix$srcdir
    ac_abs_top_srcdir=$ac_pwd/$srcdir ;;
esac
ac_abs_srcdir=$ac_abs_top_srcdir$ac_dir_suffix

cd "$ac_dir" || { ac_status=$?; continue; }
# Check for gusted configure.
if test -f "$ac_srcdir/configure.gnu"; then
  echo &&
  $SHELL "$ac_srcdir/configure.gnu" --help=recursive
elif test -f "$ac_srcdir/configure"; then
  echo &&
  $SHELL "$ac_srcdir/configure" --help=recursive
else
  $as_echo "$as_me: WARNING: no configuration information is in $ac_dir" >&2
  fi || ac_status=$?
  cd "$ac_pwd" || { ac_status=$?; break; }
done
fi

test -n "$ac_init_help" && exit $ac_status
if $ac_init_version; then
  cat <<\_ACEOF
FULL-PACKAGE-NAME configure VERSION
generated by GNU Autoconf 2.69

```

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This configure script is free software; the Free Software Foundation
gives unlimited permission to copy, distribute and modify it.


```

_ACEOF
    exit
fi

## ----- ##
## Autoconf initialization. ##
## ----- ##

# ac_fn_cxx_try_compile LINENO
# -----
# Try to compile conftest.$ac_ext, and return whether this succeeded.
ac_fn_cxx_try_compile ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    rm -f conftest.$ac_objext
    if { { ac_try="$ac_compile"
case "($ac_try" in
  *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"`\$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_compile") 2>conftest.err
    ac_status=$?
    if test -s conftest.err; then
        grep -v '^ *+' conftest.err >conftest.erl
        cat conftest.erl >&5
        mv -f conftest.erl conftest.err
    fi
    $as_echo "$as_me:${as_lineno-$LINENO}: \${?} = $ac_status" >&5
    test $ac_status = 0; } && {
        test -z "$ac_cxx_werror_flag" ||
        test ! -s conftest.err
        } && test -s conftest.$ac_objext; then :
        ac_retval=0
    else
        $as_echo "$as_me: failed program was:" >&5
        sed 's/^/| /' conftest.$ac_ext >&5

        ac_retval=1
    fi
    eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno

```

```

    as_fn_set_status $ac_retval

} # ac_fn_cxx_try_compile

# ac_fn_c_try_compile LINENO
# -----
# Try to compile conftest.$ac_ext, and return whether this succeeded.
ac_fn_c_try_compile ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    rm -f conftest.$ac_objext
    if { { ac_try="$ac_compile"
case "($ac_try" in
  *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo="\"\$as_me:${as_lineno-$LINENO}: $ac_try_echo\""
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_compile") 2>conftest.err
    ac_status=$?
    if test -s conftest.err; then
        grep -v '^ *+' conftest.err >conftest.erl
        cat conftest.erl >&5
        mv -f conftest.erl conftest.err
    fi
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; } && {
        test -z "$ac_c_werror_flag" ||
        test ! -s conftest.err
        } && test -s conftest.$ac_objext; then :
        ac_retval=0
    else
        $as_echo "$as_me: failed program was:" >&5
        sed 's/^/| /' conftest.$ac_ext >&5

        ac_retval=1
    fi
    eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno
    as_fn_set_status $ac_retval

} # ac_fn_c_try_compile

```

```

# ac_fn_c_try_cpp LINENO
# -----
# Try to preprocess conftest.$ac_ext, and return whether this succeeded.
ac_fn_c_try_cpp ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    if { { ac_try="$ac_cpp conftest.$ac_ext"
case "($ac_try" in
    *\"* | *\\`* | *\\`*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"`\$as_me:${as_lineno-$LINENO}: $ac_try_echo\""
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_cpp conftest.$ac_ext") 2>conftest.err
    ac_status=$?
    if test -s conftest.err; then
        grep -v '^ *+' conftest.err >conftest.erl
        cat conftest.erl >&5
        mv -f conftest.erl conftest.err
    fi
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; } > conftest.i && {
        test -z "$ac_c_preproc_warn_flag$ac_c_werror_flag" ||
        test ! -s conftest.err
    }; then :
        ac_retval=0
    else
        $as_echo "$as_me: failed program was:" >&5
        sed 's/^/| /' conftest.$ac_ext >&5

        ac_retval=1
    fi
    eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno
    as_fn_set_status $ac_retval
} # ac_fn_c_try_cpp

# ac_fn_c_check_header_mongrel LINENO HEADER VAR INCLUDES
# -----
# Tests whether HEADER exists, giving a warning if it cannot be compiled using
# the include files in INCLUDES and setting the cache variable VAR
# accordingly.

```

```

ac_fn_c_check_header_mongrel ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    if eval \${$3+:} false; then :
        { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $2" >&5
$as_echo_n "checking for $2... " >&6; }
    if eval \${$3+:} false; then :
        $as_echo_n "(cached) " >&6
    fi
    eval ac_res=\${$3}
        { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
$as_echo "$ac_res" >&6; }
    else
        # Is the header compilable?
        { $as_echo "$as_me:${as_lineno-$LINENO}: checking $2 usability" >&5
$as_echo_n "checking $2 usability... " >&6; }
        cat confdefs.h - <<_ACEOF >conftest.$ac_ext
        /* end confdefs.h.  */
        $4
        #include <$2>
        _ACEOF
        if ac_fn_c_try_compile "$LINENO"; then :
            ac_header_compiler=yes
        else
            ac_header_compiler=no
        fi
        rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
        { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_header_compiler" >&5
$as_echo "$ac_header_compiler" >&6; }

        # Is the header present?
        { $as_echo "$as_me:${as_lineno-$LINENO}: checking $2 presence" >&5
$as_echo_n "checking $2 presence... " >&6; }
        cat confdefs.h - <<_ACEOF >conftest.$ac_ext
        /* end confdefs.h.  */
        #include <$2>
        _ACEOF
        if ac_fn_c_try_cpp "$LINENO"; then :
            ac_header_preproc=yes
        else
            ac_header_preproc=no
        fi

```

```

rm -f conftest.err conftest.i conftest.$ac_ext
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_header_preproc" >&5
$as_echo "$ac_header_preproc" >&6; }

# So?  What about this header?
case $ac_header_compiler:$ac_header_preproc:$ac_c_preproc_warn_flag in #((
  yes:no: )
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2: accepted by the
compiler, rejected by the preprocessor!" >&5
$as_echo "$as_me: WARNING: $2: accepted by the compiler, rejected by the
preprocessor!" >&2;}
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2: proceeding with the
compiler's result" >&5
$as_echo "$as_me: WARNING: $2: proceeding with the compiler's result" >&2;}
    ;;
  no:yes:* )
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2: present but cannot be
compiled" >&5
$as_echo "$as_me: WARNING: $2: present but cannot be compiled" >&2;}
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2:      check for missing
prerequisite headers?" >&5
$as_echo "$as_me: WARNING: $2:      check for missing prerequisite headers?" >&2;}
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2: see the Autoconf
documentation" >&5
$as_echo "$as_me: WARNING: $2: see the Autoconf documentation" >&2;}
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2:      section \"Present
But Cannot Be Compiled\"" >&5
$as_echo "$as_me: WARNING: $2:      section \"Present But Cannot Be Compiled\""
>&2;}
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $2: proceeding with the
compiler's result" >&5
$as_echo "$as_me: WARNING: $2: proceeding with the compiler's result" >&2;}
    ( $as_echo "## ----- ##
## Report this to BUG-REPORT-ADDRESS ##
## ----- ##"
      ) | sed "s/^/$as_me: WARNING:      /" >&2
    ;;
esac
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for $2" >&5
$as_echo_n "checking for $2... " >&6; }
if eval \${$3+:} false; then :
  $as_echo_n "(cached) " >&6

```

```

else
    eval "$3=\$ac_header_compiler"
fi
eval ac_res=\$${3}
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
$as_echo "$ac_res" >&6; }
fi
    eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno

} # ac_fn_c_check_header_mongrel

# ac_fn_c_try_run LINENO
# -----
# Try to link conftest.$ac_ext, and return whether this succeeded. Assumes
# that executables *can* be run.
ac_fn_c_try_run ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    if { { ac_try="$ac_link"
case "($ac_try" in
    *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"\"\$as_me:${as_lineno-$LINENO}: $ac_try_echo\"\"
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_link") 2>&5
    ac_status=$?
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; } && { ac_try='./conftest$ac_exeext'
    { { case "($ac_try" in
    *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"\"\$as_me:${as_lineno-$LINENO}: $ac_try_echo\"\"
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_try") 2>&5
    ac_status=$?
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; }; }; then :
    ac_retval=0
else
    $as_echo "$as_me: program exited with status $ac_status" >&5

```

```

        $as_echo "$as_me: failed program was:" >&5
sed 's/^/| /' conftest.$ac_ext >&5

        ac_retval=$ac_status
fi

rm -rf conftest.dSYM conftest_ipa8_conftest.o
eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno
as_fn_set_status $ac_retval

} # ac_fn_c_try_run

# ac_fn_c_check_header_compile LINENO HEADER VAR INCLUDES
# -----
# Tests whether HEADER exists and can be compiled using the include files in
# INCLUDES, setting the cache variable VAR accordingly.
ac_fn_c_check_header_compile ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $2" >&5
$as_echo_n "checking for $2... " >&6; }
    if eval \${$3+:} false; then :
        $as_echo_n "(cached) " >&6
    else
        cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
$4
#include <$2>
_ACEOF
    if ac_fn_c_try_compile "$LINENO"; then :
        eval "$3=yes"
    else
        eval "$3=no"
    fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
eval ac_res=\${$3}
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
$as_echo "$ac_res" >&6; }
    eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno

} # ac_fn_c_check_header_compile

```

```

# ac_fn_c_check_type LINENO TYPE VAR INCLUDES
# -----
# Tests whether TYPE exists after having included INCLUDES, setting cache
# variable VAR accordingly.
ac_fn_c_check_type ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $2" >&5
$as_echo_n "checking for $2... " >&6; }
if eval \${$3+:} false; then :
    $as_echo_n "(cached) " >&6
else
    eval "$3=no"
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
$4
int
main ()
{
if (sizeof ($2))
    return 0;

;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
$4
int
main ()
{
if (sizeof (($2)))
    return 0;

;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :

else
    eval "$3=yes"

```



```

fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
eval ac_res=\${3}
        { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
$as_echo "$ac_res" >&6; }
        eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno

} # ac_fn_c_check_type

# ac_fn_c_try_link LINENO
# -----
# Try to link conftest.$ac_ext, and return whether this succeeded.
ac_fn_c_try_link ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    rm -f conftest.$ac_objext conftest$ac_exeext
    if { { ac_try="$ac_link"
case "($ac_try" in
  *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"\$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_link") 2>conftest.err
    ac_status=$?
    if test -s conftest.err; then
        grep -v '^ *+' conftest.err >conftest.erl
        cat conftest.erl >&5
        mv -f conftest.erl conftest.err
    fi
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; } && {
        test -z "$ac_c_werror_flag" ||
        test ! -s conftest.err
    } && test -s conftest$ac_exeext && {
        test "$cross_compiling" = yes ||
        test -x conftest$ac_exeext
    }; then :
    ac_retval=0

```

```

else
    $as_echo "$as_me: failed program was:" >&5
sed 's/^/| /' conftest.$ac_ext >&5

    ac_retval=1
fi

# Delete the IPA/IPO (Inter Procedural Analysis/Optimization) information
# created by the PGI compiler (conftest_ipa8_conftest.oo), as it would
# interfere with the next link command; also delete a directory that is
# left behind by Apple's compiler. We do this before executing the actions.
rm -rf conftest.dSYM conftest_ipa8_conftest.oo
eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno
as_fn_set_status $ac_retval

} # ac_fn_c_try_link

# ac_fn_c_check_func LINENO FUNC VAR
# -----
# Tests whether FUNC exists, setting the cache variable VAR accordingly
ac_fn_c_check_func ()
{
    as_lineno=${as_lineno-"$1"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $2" >&5
$as_echo_n "checking for $2... " >&6; }
    if eval \${$3+:} false; then :
        $as_echo_n "(cached) " >&6
    else
        cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
/* Define $2 to an innocuous variant, in case <limits.h> declares $2.
   For example, HP-UX 11i <limits.h> declares gettimeofday. */
#define $2 innocuous_$2

/* System header to define __stub macros and hopefully few prototypes,
   which can conflict with char $2 (); below.
   Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
   <limits.h> exists even on freestanding compilers. */

#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>

```

```

#endif

#undef $2

/* Override any GCC internal prototype to avoid an error.
   Use char because int might match the return type of a GCC
   builtin and then its argument prototype would still apply.  */
#ifdef __cplusplus
extern "C"
#endif
char $2 ();

/* The GNU C library defines this for functions which it implements
   to always fail with ENOSYS.  Some functions are actually named
   something starting with __ and the normal name is an alias.  */
#ifdef __stub_$2 || defined __stub__$2
choke me
#endif

int
main ()
{
return $2 ();

;
return 0;
}
_ACEOF
if ac_fn_c_try_link "$LINENO"; then :
eval "$3=yes"
else
eval "$3=no"
fi
rm -f core conftest.err conftest.$ac_objext \
conftest$ac_exeext conftest.$ac_ext
fi
eval ac_res=\$3
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_res" >&5
$as_echo "$ac_res" >&6; }
eval $as_lineno_stack; ${as_lineno_stack:+:} unset as_lineno

} # ac_fn_c_check_func
cat >config.log <<_ACEOF
This file contains any messages produced by compilers while

```

running configure, to aid debugging if configure makes a mistake.

It was created by FULL-PACKAGE-NAME \$as_me VERSION, which was
generated by GNU Autoconf 2.69. Invocation command line was

```
$ $0 $@

_ACEOF
exec 5>>config.log
{
cat <<_ASUNAME
## ----- ##
## Platform. ##
## ----- ##

hostname = `(hostname || uname -n) 2>/dev/null | sed 1q`
uname -m = `(uname -m) 2>/dev/null || echo unknown`
uname -r = `(uname -r) 2>/dev/null || echo unknown`
uname -s = `(uname -s) 2>/dev/null || echo unknown`
uname -v = `(uname -v) 2>/dev/null || echo unknown`

/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null || echo unknown`
/bin/uname -X      = `(/bin/uname -X) 2>/dev/null      || echo unknown`

/bin/arch          = `(/bin/arch) 2>/dev/null          || echo unknown`
/usr/bin/arch -k    = `(/usr/bin/arch -k) 2>/dev/null    || echo unknown`
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null || echo unknown`
/usr/bin/hostinfo   = `(/usr/bin/hostinfo) 2>/dev/null   || echo unknown`
/bin/machine        = `(/bin/machine) 2>/dev/null        || echo unknown`
/usr/bin/oslevel     = `(/usr/bin/oslevel) 2>/dev/null     || echo unknown`
/bin/universe       = `(/bin/universe) 2>/dev/null       || echo unknown`

_ASUNAME

as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  $as_echo "PATH: $as_dir"
done
IFS=$as_save_IFS
```

```
} >&5
```

```
cat >&5 <<_ACEOF
```

```
## ----- ##  
## Core tests. ##  
## ----- ##
```

```
_ACEOF
```

```
# Keep a trace of the command line.  
# Strip out --no-create and --no-recursion so they do not pile up.  
# Strip out --silent because we don't want to record it for future runs.  
# Also quote any args containing shell meta-characters.  
# Make two passes to allow for proper duplicate-argument suppression.  
ac_configure_args=  
ac_configure_args0=  
ac_configure_args1=  
ac_must_keep_next=false  
for ac_pass in 1 2  
do  
  for ac_arg  
  do  
    case $ac_arg in  
      -no-create | --no-c* | -n | -no-recursion | --no-r*) continue ;;  
      -q | -quiet | --quiet | --quie | --qui | --qu | --q \  
      | -silent | --silent | --silen | --sile | --sil)  
        continue ;;  
      *\'*)  
        ac_arg=`$as_echo "$ac_arg" | sed "s/'/'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\'/g"` ;;  
    esac  
    case $ac_pass in  
      1) as_fn_append ac_configure_args0 " '$ac_arg' " ;;  
      2)  
        as_fn_append ac_configure_args1 " '$ac_arg' "  
        if test $ac_must_keep_next = true; then  
          ac_must_keep_next=false # Got value, back to normal.  
        else  
          case $ac_arg in
```

```

    *=* | --config-cache | -C | -disable-* | --disable-* \
    | -enable-* | --enable-* | -gas | --g* | -nfp | --nf* \
    | -q | -quiet | --q* | -silent | --sil* | -v | -verb* \
    | -with-* | --with-* | -without-* | --without-* | --x)
    case "$ac_configure_args0 " in
        "$ac_configure_args1"*" '$ac_arg' "*" ) continue ;;
    esac
    ;;
    -* ) ac_must_keep_next=true ;;
esac
fi
as_fn_append ac_configure_args " '$ac_arg'"
;;
esac
done
done
{ ac_configure_args0=; unset ac_configure_args0;}
{ ac_configure_args1=; unset ac_configure_args1;}

# When interrupted or exit'd, cleanup temporary files, and complete
# config.log. We remove comments because anyway the quotes in there
# would cause problems or look ugly.
# WARNING: Use '\'' to represent an apostrophe within the trap.
# WARNING: Do not start the trap code with a newline, due to a FreeBSD 4.0 bug.
trap 'exit_status=$?
    # Save into config.log some information that might help in debugging.
    {
        echo

        $as_echo "## ----- ##"
        ## Cache variables. ##
        ## ----- ##"
        echo
        # The following way of writing the cache mishandles newlines in values,
        (
            for ac_var in `(set) 2>&1 | sed -n '\''s/^\([a-zA-Z_][a-zA-Z0-9_]*\)=.*/\1/p'\''`; do
                eval ac_val=\${$ac_var}
                case $ac_val in #(
                    *${as_nl}*)
                        case $ac_var in #(

```

```

*_cv_*) { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: cache variable
$sac_var contains a newline" >&5
$as_echo "$as_me: WARNING: cache variable $sac_var contains a newline" >&2;} ;;
esac
case $sac_var in #(
_ | IFS | as_nl) ;; #(
BASH_ARGV | BASH_SOURCE) eval $sac_var= ;; #(
*) { eval $sac_var=; unset $sac_var;} ;;
esac ;;
esac
done
(set) 2>&1 |
case $as_nl` (ac_space='\' \'\''; set) 2>&1` in #(
*${as_nl}ac_space=\ *)
sed -n \
"s/'\'/'\'\'\\\'\'\'\'\'\'\'\'/g;

s/^\\([_$_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*\\)=\\(.*\\)/\\1='\'\'\'2\'\'\'/p"
;; #(
*)
sed -n "/^[_$_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*=/p"
;;
esac |
sort
)
echo

$as_echo "## ----- ##
## Output variables. ##
## ----- ##"
echo
for ac_var in $sac_subst_vars
do
eval ac_val=\\$sac_var
case $sac_val in
*\'\'\'*)
ac_val=`$as_echo "$sac_val" |
"s/'\'/'\'\'\\\'\'\'\'\'\'\'\'/g"`;;
esac
$as_echo "$sac_var='\'\'$sac_val\'\'\'"
done | sort
echo

```



```

# Predefined preprocessor variables.

cat >>confdefs.h <<_ACEOF
#define PACKAGE_NAME "$PACKAGE_NAME"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define PACKAGE_TARNAME "$PACKAGE_TARNAME"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define PACKAGE_VERSION "$PACKAGE_VERSION"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define PACKAGE_STRING "$PACKAGE_STRING"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define PACKAGE_BUGREPORT "$PACKAGE_BUGREPORT"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define PACKAGE_URL "$PACKAGE_URL"
_ACEOF


# Let the site file select an alternate cache file if it wants to.
# Prefer an explicitly selected file to automatically selected ones.
ac_site_file1=NONE
ac_site_file2=NONE
if test -n "$CONFIG_SITE"; then
  # We do not want a PATH search for config.site.
  case $CONFIG_SITE in
    -*) ac_site_file1=./$CONFIG_SITE;;
    /*) ac_site_file1=$CONFIG_SITE;;
    *) ac_site_file1=./$CONFIG_SITE;;
  esac
elif test "x$prefix" != xNONE; then
  ac_site_file1=$prefix/share/config.site
  ac_site_file2=$prefix/etc/config.site

```

```

else
    ac_site_file1=$ac_default_prefix/share/config.site
    ac_site_file2=$ac_default_prefix/etc/config.site
fi
for ac_site_file in "$ac_site_file1" "$ac_site_file2"
do
    test "x$ac_site_file" = xNONE && continue
    if test /dev/null != "$ac_site_file" && test -r "$ac_site_file"; then
        { $as_echo "$as_me:${as_lineno-$LINENO}: loading site script $ac_site_file"
        >&5
$as_echo "$as_me: loading site script $ac_site_file" >&6;}
        sed 's/^/| /' "$ac_site_file" >&5
        . "$ac_site_file" \
            || { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
        as_fn_error $? "failed to load site script $ac_site_file
See \`config.log' for more details" "$LINENO" 5; }
    fi
done

if test -r "$cache_file"; then
    # Some versions of bash will fail to source /dev/null (special files
    # actually), so we avoid doing that. DJGPP emulates it as a regular file.
    if test /dev/null != "$cache_file" && test -f "$cache_file"; then
        { $as_echo "$as_me:${as_lineno-$LINENO}: loading cache $cache_file" >&5
$as_echo "$as_me: loading cache $cache_file" >&6;}
        case $cache_file in
            [\\/] * | ?:[\\/] * ) . "$cache_file";;
            *) . "$cache_file";;
        esac
    fi
else
    { $as_echo "$as_me:${as_lineno-$LINENO}: creating cache $cache_file" >&5
$as_echo "$as_me: creating cache $cache_file" >&6;}
    >$cache_file
fi

# Check that the precious variables saved in the cache have kept the same
# value.
ac_cache_corrupted=false
for ac_var in $ac_precious_vars; do
    eval ac_old_set=\$ac_cv_env_${ac_var}_set

```

```

eval ac_new_set=\$ac_env_${ac_var}_set
eval ac_old_val=\$ac_cv_env_${ac_var}_value
eval ac_new_val=\$ac_env_${ac_var}_value
case $ac_old_set,$ac_new_set in
    set,)
        { $as_echo "$as_me:${as_lineno-$LINENO}: error: \`$ac_var' was set to
\`$ac_old_val' in the previous run" >&5
$as_echo "$as_me: error: \`$ac_var' was set to \`$ac_old_val' in the previous run"
>&2;}

        ac_cache_corrupted=: ;;
    ,set)
        { $as_echo "$as_me:${as_lineno-$LINENO}: error: \`$ac_var' was not set in
the previous run" >&5
$as_echo "$as_me: error: \`$ac_var' was not set in the previous run" >&2;}
        ac_cache_corrupted=: ;;
    ,) ;;
*)
    if test "x$ac_old_val" != "x$ac_new_val"; then
        # differences in whitespace do not lead to failure.
        ac_old_val_w=`echo x $ac_old_val`
        ac_new_val_w=`echo x $ac_new_val`
        if test "$ac_old_val_w" != "$ac_new_val_w"; then
            { $as_echo "$as_me:${as_lineno-$LINENO}: error: \`$ac_var' has changed
since the previous run:" >&5
$as_echo "$as_me: error: \`$ac_var' has changed since the previous run:" >&2;}
            ac_cache_corrupted=:
        else
            { $as_echo "$as_me:${as_lineno-$LINENO}: warning: ignoring whitespace
changes in \`$ac_var' since the previous run:" >&5
$as_echo "$as_me: warning: ignoring whitespace changes in \`$ac_var' since the
previous run:" >&2;}
            eval $ac_var=\$ac_old_val
        fi
        { $as_echo "$as_me:${as_lineno-$LINENO}:    former value:  \`$ac_old_val'"
>&5
$as_echo "$as_me:    former value:  \`$ac_old_val'" >&2;}
        { $as_echo "$as_me:${as_lineno-$LINENO}:    current value: \`$ac_new_val'"
>&5
$as_echo "$as_me:    current value: \`$ac_new_val'" >&2;}
        fi ;;
esac
# Pass precious variables to config.status.

```

```

if test "$ac_new_set" = set; then
  case $ac_new_val in
    *\'*) ac_arg=$ac_var=`$as_echo "$ac_new_val" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
    *) ac_arg=$ac_var=$ac_new_val ;;
  esac
  case " $ac_configure_args " in
    *" '$ac_arg' "*) ;; # Avoid dups. Use of quotes ensures accuracy.
    *) as_fn_append ac_configure_args " '$ac_arg' " ;;
  esac
fi
done
if $ac_cache_corrupted; then
  { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
  { $as_echo "$as_me:${as_lineno-$LINENO}: error: changes in the environment can
compromise the build" >&5
$as_echo "$as_me: error: changes in the environment can compromise the build"
>&2;}
  as_fn_error $? "run \`make distclean' and/or \`rm $cache_file' and start over"
"$LINENO" 5
fi
## ----- ##
## Main body of script. ##
## ----- ##

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

ac_config_headers="$ac_config_headers config.h"

# Checks for programs.
ac_ext=cpp
ac_cpp='$CXXCPP $CPPFLAGS'
ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS conftest.$ac_ext >&5'

```

```

ac_link='$CXX -o conftest$sac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS conftest.$sac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_cxx_compiler_gnu
if test -z "$CXX"; then
  if test -n "$CCC"; then
    CXX=$CCC
  else
    if test -n "$ac_tool_prefix"; then
      for ac_prog in g++ c++ gpp aCC CC cxx cc++ cl.exe FCC KCC RCC xlc_r xlc
      do
        # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a program
        name with args.
        set dummy $ac_tool_prefix$ac_prog; ac_word=$2
        { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
        $as_echo_n "checking for $ac_word... " >&6; }
        if ${ac_cv_prog_CXX+:} false; then :
          $as_echo_n "(cached) " >&6
        else
          if test -n "$CXX"; then
            ac_cv_prog_CXX="$CXX" # Let the user override the test.
          else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH
            do
              IFS=$as_save_IFS
              test -z "$as_dir" && as_dir=.
              for ac_exec_ext in '' $ac_executable_extensions; do
                if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                  ac_cv_prog_CXX="$ac_tool_prefix$ac_prog"
                  $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
                  >&5
                  break 2
                fi
              done
            done
            IFS=$as_save_IFS
          fi
        fi
        CXX=$ac_cv_prog_CXX
        if test -n "$CXX"; then
          { $as_echo "$as_me:${as_lineno-$LINENO}: result: $CXX" >&5

```

```

$as_echo "$CXX" >&6; }
else
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

    test -n "$CXX" && break
done
fi
if test -z "$CXX"; then
    ac_ct_CXX=CXX
    for ac_prog in g++ c++ gpp aCC CC cxx cc++ cl.exe FCC KCC RCC xlc_r xlc
do
    # Extract the first word of "$ac_prog", so it can be a program name with args.
    set dummy $ac_prog; ac_word=$2
    { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
    if ${ac_cv_prog_ac_ct_CXX+:} false; then :
        $as_echo_n "(cached) " >&6
    else
        if test -n "$ac_ct_CXX"; then
            ac_cv_prog_ac_ct_CXX="$ac_ct_CXX" # Let the user override the test.
        else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in '' $ac_executable_extensions; do
        if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_CXX="$ac_prog"
            $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
>&5
            break 2
        fi
    done
done
IFS=$as_save_IFS

fi
fi

```

```

ac_ct_CXX=$ac_cv_prog_ac_ct_CXX
if test -n "$ac_ct_CXX"; then
  { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_ct_CXX" >&5
$as_echo "$ac_ct_CXX" >&6; }
else
  { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

  test -n "$ac_ct_CXX" && break
done

  if test "x$ac_ct_CXX" = x; then
    CXX="g++"
  else
    case $cross_compiling:$ac_tool_warned in
yes:)
{ $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: using cross tools not prefixed
with host triplet" >&5
$as_echo "$as_me: WARNING: using cross tools not prefixed with host triplet" >&2;}
ac_tool_warned=yes ;;
esac
    CXX=$ac_ct_CXX
  fi
fi

fi
fi

# Provide some information about the compiler.
$as_echo "$as_me:${as_lineno-$LINENO}: checking for C++ compiler version" >&5
set X $ac_compile
ac_compiler=$2
for ac_option in --version -v -V -qversion; do
  { { ac_try="$ac_compiler $ac_option >&5"
case "($ac_try" in
  *\"* | *\`* | *\\*) ac_try_echo=\"$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo=\"$\"$as_me:${as_lineno-$LINENO}: $ac_try_echo\""
$as_echo "$ac_try_echo"; } >&5
  (eval "$ac_compiler $ac_option >&5") 2>conftest.err

```

```

ac_status=$?
if test -s conftest.err; then
    sed '10a\
... rest of stderr output deleted ...
    10q' conftest.err >conftest.erl
    cat conftest.erl >&5
fi
rm -f conftest.erl conftest.err
$as_echo "$as_me:${as_lineno-$LINENO}: \${?} = $ac_status" >&5
test $ac_status = 0; }
done

cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
ac_clean_files_save=$ac_clean_files
ac_clean_files="$ac_clean_files a.out a.out.dSYM a.exe b.out"
# Try to create an executable without -o first, disregard a.out.
# It will help us diagnose broken compilers, and finding out an intuition
# of exeext.
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether the C++ compiler works"
>&5
$as_echo_n "checking whether the C++ compiler works... " >&6; }
ac_link_default=`$as_echo "$ac_link" | sed 's/ -o *conftest[^\ ]*//'\`

# The possible output files:
ac_files="a.out conftest.exe conftest a.exe a_out.exe b.out conftest.*"

ac_rmfiles=
for ac_file in $ac_files
do
    case $ac_file in
        *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg | *.map |
        *.inf | *.dSYM | *.o | *.obj ) ;;
    esac
done

```



```

        * ) ac_rmfiles="$ac_rmfiles $ac_file";;
    esac
done
rm -f $ac_rmfiles

if { { ac_try="$ac_link_default"
case "($ac_try" in
    *\"* | *\`* | *\\*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo="\"\\$as_me:${as_lineno-$LINENO}: $ac_try_echo\""
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_link_default") 2>&5
    ac_status=$?
    $as_echo "$as_me:${as_lineno-$LINENO}: \\$? = $ac_status" >&5
    test $ac_status = 0; }; then :
    # Autoconf-2.13 could set the ac_cv_exeext variable to `no'.
    # So ignore a value of `no', otherwise this would lead to `EXEEXT = no'
    # in a Makefile. We should not override ac_cv_exeext if it was cached,
    # so that the user can short-circuit this test for compilers unknown to
    # Autoconf.
    for ac_file in $ac_files ''
    do
        test -f "$ac_file" || continue
        case $ac_file in
            *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg | *.map |
            *.inf | *.dSYM | *.o | *.obj )
                ;;
            [ab].out )
                # We found the default executable, but exeext='' is most
                # certainly right.
                break;;
            *.* )
                if test "${ac_cv_exeext+set}" = set && test "$ac_cv_exeext" != no;
                then ;; else
                    ac_cv_exeext=`expr "$ac_file" : '[^.]*(\\.*)'`
                fi
                # We set ac_cv_exeext here because the later test for it is not
                # safe: cross compilers may not add the suffix if given an `-o'
                # argument, so we may need to know it at that point already.
                # Even if this section looks crufty: it has the advantage of
                # actually working.

```

```

        break;;
    * )
        break;;
    esac
done
test "$ac_cv_exeext" = no && ac_cv_exeext=

else
    ac_file=''
fi
if test -z "$ac_file"; then :
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
$as_echo "$as_me: failed program was:" >&5
sed 's/^/| /' conftest.$ac_ext >&5

{ { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
as_fn_error 77 "C++ compiler cannot create executables
See \`config.log' for more details" "$LINENO" 5; }
else
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: yes" >&5
$as_echo "yes" >&6; }
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for C++ compiler default output
file name" >&5
$as_echo_n "checking for C++ compiler default output file name... " >&6; }
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_file" >&5
$as_echo "$ac_file" >&6; }
ac_exeext=$ac_cv_exeext

rm -f -r a.out a.out.dSYM a.exe conftest$ac_cv_exeext b.out
ac_clean_files=$ac_clean_files_save
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for suffix of executables" >&5
$as_echo_n "checking for suffix of executables... " >&6; }
if { { ac_try="$ac_link"
case "($ac_try" in
    *\"* | *\\* | *\\*) ac_try_echo=\"$ac_try;;
    *) ac_try_echo=$ac_try;;
    esac
eval ac_try_echo=\"$\"$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5

```

```

(eval "$ac_link") 2>&5
ac_status=$?
$as_echo "$as_me:${as_lineno-$LINENO}: \ $? = $ac_status" >&5
test $ac_status = 0; }; then :
# If both `conftest.exe' and `conftest' are `present' (well, observable)
# catch `conftest.exe'. For instance with Cygwin, `ls conftest' will
# work properly (i.e., refer to `conftest.exe'), while it won't with
# `rm'.
for ac_file in conftest.exe conftest conftest.*; do
  test -f "$ac_file" || continue
  case $ac_file in
    *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg | *.map |
*.inf | *.dSYM | *.o | *.obj ) ;;
    *.* ) ac_cv_exeext=`expr "$ac_file" : '[^.]*\(\..*\)'`
        break;;
    * ) break;;
  esac
done
else
  { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
as_fn_error $? "cannot compute suffix of executables: cannot compile and link
See `config.log' for more details" "$LINENO" 5; }
fi
rm -f conftest conftest$ac_cv_exeext
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_exeext" >&5
$as_echo "$ac_cv_exeext" >&6; }

rm -f conftest.$ac_ext
EXEEXT=$ac_cv_exeext
ac_exeext=$EXEEXT
cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <stdio.h>

int
main ()
{
FILE *f = fopen ("conftest.out", "w");
return ferror (f) || fclose (f) != 0;

;
return 0;

```

```

}
_ACEOF
ac_clean_files="$ac_clean_files conftest.out"
# Check that the compiler produces executables we can run.  If not, either
# the compiler is broken, or we cross compile.
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether we are cross compiling"
>&5
$as_echo_n "checking whether we are cross compiling... " >&6; }
if test "$cross_compiling" != yes; then
  { { ac_try="$ac_link"
case "((($ac_try" in
  *\"* | *\\`* | *\\`*) ac_try_echo=\$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo="\`$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5
  (eval "$ac_link") 2>&5
  ac_status=$?
  $as_echo "$as_me:${as_lineno-$LINENO}: \`$? = $ac_status" >&5
  test $ac_status = 0; }
  if { ac_try='./conftest$ac_cv_exeext'
  { { case "((($ac_try" in
    *\"* | *\\`* | *\\`*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
  esac
  eval ac_try_echo="\`$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_try") 2>&5
    ac_status=$?
    $as_echo "$as_me:${as_lineno-$LINENO}: \`$? = $ac_status" >&5
    test $ac_status = 0; }; }; then
    cross_compiling=no
  else
    if test "$cross_compiling" = maybe; then
      cross_compiling=yes
    else
      { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
as_fn_error $? "cannot run C++ compiled programs.
If you meant to cross compile, use \`--host'.
See \`config.log' for more details" "$LINENO" 5; }
    fi

```

```

    fi
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $cross_compiling" >&5
$as_echo "$cross_compiling" >&6; }

rm -f conftest.$ac_ext conftest$ac_cv_exeext conftest.out
ac_clean_files=$ac_clean_files_save
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for suffix of object files" >&5
$as_echo_n "checking for suffix of object files... " >&6; }
if ${ac_cv_objext+:} false; then :
    $as_echo_n "(cached) " >&6
else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
rm -f conftest.o conftest.obj
if { { ac_try="$ac_compile"
case "($ac_try" in
    *\"* | *\\* | *\\*) ac_try_echo=\$ac_try;;
    *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo="\"$as_me:${as_lineno-$LINENO}: $ac_try_echo\""
$as_echo "$ac_try_echo"; } >&5
    (eval "$ac_compile") 2>&5
    ac_status=$?
    $as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
    test $ac_status = 0; }; then :
    for ac_file in conftest.o conftest.obj conftest.*; do
    test -f "$ac_file" || continue;
    case $ac_file in
        *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg | *.map |
*.inf | *.dSYM ) ;;
        *) ac_cv_objext=`expr "$ac_file" : '.*\\.\\(.*\\)'`
            break;;
    esac

```

```

    esac
done
else
    $as_echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

{ { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':" >&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
as_fn_error $? "cannot compute suffix of object files: cannot compile
See \`config.log' for more details" "$LINENO" 5; }
fi
rm -f conftest.$ac_cv_objext conftest.$ac_ext
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_objext" >&5
$as_echo "$ac_cv_objext" >&6; }
OBJEXT=$ac_cv_objext
ac_objext=$OBJEXT
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether we are using the GNU
C++ compiler" >&5
$as_echo_n "checking whether we are using the GNU C++ compiler... " >&6; }
if ${ac_cv_cxx_compiler_gnu+:} false; then :
    $as_echo_n "(cached) " >&6
else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{
#ifdef __GNUC__
    choke me
#endif

    ;
    return 0;
}
_ACEOF
if ac_fn_cxx_try_compile "$LINENO"; then :
    ac_compiler_gnu=yes
else
    ac_compiler_gnu=no
fi

```

```

rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
ac_cv_cxx_compiler_gnu=$ac_compiler_gnu

fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_cxx_compiler_gnu" >&5
$as_echo "$ac_cv_cxx_compiler_gnu" >&6; }
if test $ac_compiler_gnu = yes; then
    GXX=yes
else
    GXX=
fi
ac_test_CXXFLAGS=${CXXFLAGS+set}
ac_save_CXXFLAGS=$CXXFLAGS
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether $CXX accepts -g" >&5
$as_echo_n "checking whether $CXX accepts -g... " >&6; }
if ${ac_cv_prog_cxx_g+:} false; then :
    $as_echo_n "(cached) " >&6
else
    ac_save_cxx_werror_flag=$ac_cxx_werror_flag
    ac_cxx_werror_flag=yes
    ac_cv_prog_cxx_g=no
    CXXFLAGS="-g"
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_cxx_try_compile "$LINENO"; then :
    ac_cv_prog_cxx_g=yes
else
    CXXFLAGS=""
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()

```

```

{

    ;
    return 0;
}
_ACEOF
if ac_fn_cxx_try_compile "$LINENO"; then :

else
    ac_cxx_werror_flag=$ac_save_cxx_werror_flag
    CXXFLAGS="-g"
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h.  */

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_cxx_try_compile "$LINENO"; then :
    ac_cv_prog_cxx_g=yes
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
    ac_cxx_werror_flag=$ac_save_cxx_werror_flag
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_prog_cxx_g" >&5
$as_echo "$ac_cv_prog_cxx_g" >&6; }
if test "$ac_test_CXXFLAGS" = set; then
    CXXFLAGS=$ac_save_CXXFLAGS
elif test $ac_cv_prog_cxx_g = yes; then
    if test "$GXX" = yes; then
        CXXFLAGS="-g -O2"
    else
        CXXFLAGS="-g"
    fi
fi

```



```

else
  if test "$GXX" = yes; then
    CXXFLAGS="-O2"
  else
    CXXFLAGS=
  fi
fi
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu
if test -n "$ac_tool_prefix"; then
  # Extract the first word of "${ac_tool_prefix}gcc", so it can be a program name
  with args.
  set dummy ${ac_tool_prefix}gcc; ac_word=$2
  { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
  $as_echo_n "checking for $ac_word... " >&6; }
  if ${ac_cv_prog_CC+:} false; then :
    $as_echo_n "(cached) " >&6
  else
    if test -n "$CC"; then
      ac_cv_prog_CC="$CC" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in '' $ac_executable_extensions; do
          if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_CC="${ac_tool_prefix}gcc"
            $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
            >&5

```

```

        break 2
    fi
done
done
IFS=$as_save_IFS

fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $CC" >&5
$as_echo "$CC" >&6; }
else
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

fi
if test -z "$ac_cv_prog_CC"; then
    ac_ct_CC=$CC
    # Extract the first word of "gcc", so it can be a program name with args.
    set dummy gcc; ac_word=$2
    { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
    if ${ac_cv_prog_ac_ct_CC+:} false; then :
        $as_echo_n "(cached) " >&6
    else
        if test -n "$ac_ct_CC"; then
            ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
        else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH
            do
                IFS=$as_save_IFS
                test -z "$as_dir" && as_dir=.
                for ac_exec_ext in '' $ac_executable_extensions; do
                    if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                        ac_cv_prog_ac_ct_CC="gcc"
                        $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
>&5
                        break 2
                    fi
                done
            done
        fi
    fi
fi

```

```

    fi
done
done
IFS=$as_save_IFS

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_ct_CC" >&5
$as_echo "$ac_ct_CC" >&6; }
else
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

    if test "x$ac_ct_CC" = x; then
        CC=""
    else
        case $cross_compiling:$ac_tool_warned in
yes:)
{ $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: using cross tools not prefixed
with host triplet" >&5
$as_echo "$as_me: WARNING: using cross tools not prefixed with host triplet" >&2;}
ac_tool_warned=yes ;;
esac
        CC=$ac_ct_CC
    fi
else
    CC="$ac_cv_prog_CC"
fi

if test -z "$CC"; then
    if test -n "$ac_tool_prefix"; then
        # Extract the first word of "${ac_tool_prefix}cc", so it can be a program name
        with args.
        set dummy ${ac_tool_prefix}cc; ac_word=$2
        { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
        if ${ac_cv_prog_CC+:} false; then :
            $as_echo_n "(cached) " >&6
        else

```

```

    if test -n "$CC"; then
        ac_cv_prog_CC="$CC" # Let the user override the test.
    else
        as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
        for as_dir in $PATH
        do
            IFS=$as_save_IFS
            test -z "$as_dir" && as_dir=.
            for ac_exec_ext in '' $ac_executable_extensions; do
                if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                    ac_cv_prog_CC="{ac_tool_prefix}cc"
                    $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
>&5
                    break 2
                fi
            done
        done
        IFS=$as_save_IFS

        fi
        fi
        CC=$ac_cv_prog_CC
        if test -n "$CC"; then
            { $as_echo "$as_me:${as_lineno-$LINENO}: result: $CC" >&5
$as_echo "$CC" >&6; }
        else
            { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
        fi

        fi
        fi
        if test -z "$CC"; then
            # Extract the first word of "cc", so it can be a program name with args.
            set dummy cc; ac_word=$2
            { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
            if ${ac_cv_prog_CC+:} false; then :
                $as_echo_n "(cached) " >&6
            else
                if test -n "$CC"; then

```

```

    ac_cv_prog_CC="$CC" # Let the user override the test.
else
    ac_prog_rejected=no
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in '' $ac_executable_extensions; do
    if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
        if test "$as_dir/$ac_word$ac_exec_ext" = "/usr/ucb/cc"; then
            ac_prog_rejected=yes
            continue
        fi
        ac_cv_prog_CC="cc"
        $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
    >&5
        break 2
    fi
done
done
IFS=$as_save_IFS

if test $ac_prog_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $ac_cv_prog_CC
    shift
    if test $# != 0; then
        # We chose a different compiler from the bogus one.
        # However, it has the same basename, so the bogon will be chosen
        # first if we set CC to just the basename; use the full file name.
        shift
        ac_cv_prog_CC="$as_dir/$ac_word${1+' '}$@"
    fi
fi
fi
fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $CC" >&5
$as_echo "$CC" >&6; }
else

```

```

    { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

fi

if test -z "$CC"; then
  if test -n "$ac_tool_prefix"; then
    for ac_prog in cl.exe
    do
      # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a program
      name with args.
      set dummy $ac_tool_prefix$ac_prog; ac_word=$2
      { $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
      if ${ac_cv_prog_CC+:} false; then :
        $as_echo_n "(cached) " >&6
      else
        if test -n "$CC"; then
          ac_cv_prog_CC="$CC" # Let the user override the test.
        else
          as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
          for as_dir in $PATH
          do
            IFS=$as_save_IFS
            test -z "$as_dir" && as_dir=.
            for ac_exec_ext in '' $ac_executable_extensions; do
              if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                ac_cv_prog_CC="$ac_tool_prefix$ac_prog"
                $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
                >&5
                break 2
              fi
            done
          done
          IFS=$as_save_IFS
        fi
      fi
      CC=$ac_cv_prog_CC
    fi
    if test -n "$CC"; then
      { $as_echo "$as_me:${as_lineno-$LINENO}: result: $CC" >&5

```

```

$as_echo "$CC" >&6; }
else
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

    test -n "$CC" && break
done
fi
if test -z "$CC"; then
    ac_ct_CC=$CC
    for ac_prog in cl.exe
do
    # Extract the first word of "$ac_prog", so it can be a program name with args.
set dummy $ac_prog; ac_word=$2
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for $ac_word" >&5
$as_echo_n "checking for $ac_word... " >&6; }
if ${ac_cv_prog_ac_ct_CC+:} false; then :
    $as_echo_n "(cached) " >&6
else
    if test -n "$ac_ct_CC"; then
        ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
    else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in '' $ac_executable_extensions; do
if as_fn_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
        ac_cv_prog_ac_ct_CC="$ac_prog"
        $as_echo "$as_me:${as_lineno-$LINENO}: found $as_dir/$ac_word$ac_exec_ext"
>&5
        break 2
    fi
done
done
IFS=$as_save_IFS

fi
fi

```

```

ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
  { $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_ct_CC" >&5
$as_echo "$ac_ct_CC" >&6; }
else
  { $as_echo "$as_me:${as_lineno-$LINENO}: result: no" >&5
$as_echo "no" >&6; }
fi

  test -n "$ac_ct_CC" && break
done

  if test "x$ac_ct_CC" = x; then
    CC=""
  else
    case $cross_compiling:$ac_tool_warned in
yes:)
{ $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: using cross tools not prefixed
with host triplet" >&5
$as_echo "$as_me: WARNING: using cross tools not prefixed with host triplet" >&2;}
ac_tool_warned=yes ;;
esac
    CC=$ac_ct_CC
  fi
fi

fi

  test -z "$CC" && { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`$ac_pwd':"
>&5
$as_echo "$as_me: error: in \`$ac_pwd':" >&2;}
as_fn_error $? "no acceptable C compiler found in $PATH
See \`config.log' for more details" "$LINENO" 5; }

# Provide some information about the compiler.
$as_echo "$as_me:${as_lineno-$LINENO}: checking for C compiler version" >&5
set X $ac_compile
ac_compiler=$2
for ac_option in --version -v -V -qversion; do
  { { ac_try="$ac_compiler $ac_option >&5"

```



```

case "($ac_try" in
  *\"* | *\\`* | *\\\\*) ac_try_echo=\$ac_try;;
  *) ac_try_echo=$ac_try;;
esac
eval ac_try_echo="\\"$as_me:${as_lineno-$LINENO}: $ac_try_echo\"
$as_echo "$ac_try_echo"; } >&5
(eval "$ac_compiler $ac_option >&5") 2>conftest.err
ac_status=$?
if test -s conftest.err; then
  sed '10a\
... rest of stderr output deleted ...
      10q' conftest.err >conftest.er1
  cat conftest.er1 >&5
fi
rm -f conftest.er1 conftest.err
$as_echo "$as_me:${as_lineno-$LINENO}: \$? = $ac_status" >&5
test $ac_status = 0; }
done

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether we are using the GNU C
compiler" >&5
$as_echo_n "checking whether we are using the GNU C compiler... " >&6; }
if ${ac_cv_c_compiler_gnu+:} false; then :
  $as_echo_n "(cached) " >&6
else
  cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{
#ifdef __GNUC__
    choke me
#endif

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
  ac_compiler_gnu=yes
else

```

```

    ac_compiler_gnu=no
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
ac_cv_c_compiler_gnu=$ac_compiler_gnu

fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_c_compiler_gnu" >&5
$as_echo "$ac_cv_c_compiler_gnu" >&6; }
if test $ac_compiler_gnu = yes; then
    GCC=yes
else
    GCC=
fi
ac_test_CFLAGS=${CFLAGS+set}
ac_save_CFLAGS=$CFLAGS
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking whether $CC accepts -g" >&5
$as_echo_n "checking whether $CC accepts -g... " >&6; }
if ${ac_cv_prog_cc_g+:} false; then :
    $as_echo_n "(cached) " >&6
else
    ac_save_c_werror_flag=$ac_c_werror_flag
    ac_c_werror_flag=yes
    ac_cv_prog_cc_g=no
    CFLAGS="-g"
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
    ac_cv_prog_cc_g=yes
else
    CFLAGS=""
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

```

```

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :

else
    ac_c_werror_flag=$ac_save_c_werror_flag
    CFLAGS="-g"
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
    ac_cv_prog_cc_g=yes
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
    ac_c_werror_flag=$ac_save_c_werror_flag
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_prog_cc_g" >&5
$as_echo "$ac_cv_prog_cc_g" >&6; }
if test "$ac_test_CFLAGS" = set; then
    CFLAGS=$ac_save_CFLAGS
elif test $ac_cv_prog_cc_g = yes; then
    if test "$GCC" = yes; then
        CFLAGS="-g -O2"
    else

```

```

        CFLAGS="-g"
    fi
else
    if test "$GCC" = yes; then
        CFLAGS="-O2"
    else
        CFLAGS=
    fi
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for $CC option to accept ISO
C89" >&5
$as_echo_n "checking for $CC option to accept ISO C89... " >&6; }
if ${ac_cv_prog_cc_c89+:} false; then :
    $as_echo_n "(cached) " >&6
else
    ac_cv_prog_cc_c89=no
ac_save_CC=$CC
cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <stdarg.h>
#include <stdio.h>
struct stat;
/* Most of the following tests are stolen from RCS 5.7's src/conf.sh. */
struct buf { int x; };
FILE * (*rcsopen) (struct buf *, struct stat *, int);
static char *e (p, i)
    char **p;
    int i;
{
    return p[i];
}
static char *f (char * (*g) (char **, int), char **p, ...)
{
    char *s;
    va_list v;
    va_start (v,p);
    s = g (p, va_arg (v,int));
    va_end (v);
    return s;
}

/* OSF 4.0 Compaq cc is some sort of almost-ANSI by default.  It has

```

```

function prototypes and stuff, but not '\xHH' hex character constants.
These don't provoke an error unfortunately, instead are silently treated
as 'x'. The following induces an error, until -std is added to get
proper ANSI mode. Curiously '\x00'!='x' always comes out true, for an
array size at least. It's necessary to write '\x00'==0 to get something
that's true only with -std. */
int osf4_cc_array ['\x00' == 0 ? 1 : -1];

/* IBM C 6 for AIX is almost-ANSI by default, but it replaces macro parameters
inside strings and character constants. */
#define FOO(x) 'x'
int xlc6_cc_array[FOO(a) == 'x' ? 1 : -1];

int test (int i, double x);
struct s1 {int (*f) (int a);};
struct s2 {int (*f) (double a);};
int pairnames (int, char **, FILE *(*)(struct buf *, struct stat *, int), int,
int);
int argc;
char **argv;
int
main ()
{
return f (e, argv, 0) != argv[0] || f (e, argv, 1) != argv[1];
;
return 0;
}
_ACEOF
for ac_arg in ' -qlanglvl=extc89 -qlanglvl=ansi -std \
-Ae "-Aa -D_HPUX_SOURCE" "-Xc -D__EXTENSIONS__"
do
CC="$ac_save_CC $ac_arg"
if ac_fn_c_try_compile "$LINENO"; then :
ac_cv_prog_cc_c89=$ac_arg
fi
rm -f core conftest.err conftest.$ac_objext
test "x$ac_cv_prog_cc_c89" != "xno" && break
done
rm -f conftest.$ac_ext
CC=$ac_save_CC

fi

```

```

# AC_CACHE_VAL
case "x$sac_cv_prog_cc_c89" in
  x)
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: none needed" >&5
$as_echo "none needed" >&6; } ;;
  xno)
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: unsupported" >&5
$as_echo "unsupported" >&6; } ;;
  *)
    CC="$CC $sac_cv_prog_cc_c89"
    { $as_echo "$as_me:${as_lineno-$LINENO}: result: $sac_cv_prog_cc_c89" >&5
$as_echo "$sac_cv_prog_cc_c89" >&6; } ;;
esac
if test "x$sac_cv_prog_cc_c89" != xno; then :

fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$sac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

# Checks for libraries.

# Checks for header files.

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$sac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking how to run the C preprocessor"
>&5
$as_echo_n "checking how to run the C preprocessor... " >&6; }
# On Suns, sometimes $CPP names a directory.
if test -n "$CPP" && test -d "$CPP"; then
  CPP=
fi

```

```

if test -z "$CPP"; then
  if ${ac_cv_prog_CPP+:} false; then :
    $as_echo_n "(cached) " >&6
  else
    # Double quotes because CPP needs to be expanded
    for CPP in "$CC -E" "$CC -E -traditional-cpp" "/lib/cpp"
    do
      ac_preproc_ok=false
    for ac_c_preproc_warn_flag in ' yes
    do
      # Use a header file that comes with gcc, so configuring glibc
      # with a fresh cross-compiler works.
      # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
      # <limits.h> exists even on freestanding compilers.
      # On the NeXT, cc -E runs the code through the compiler's parser,
      # not just through cpp. "Syntax error" is here to catch this case.
      cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

          Syntax error

    _ACEOF
    if ac_fn_c_try_cpp "$LINENO"; then :

    else
      # Broken: fails on valid input.
      continue
    fi
    rm -f conftest.err conftest.i conftest.$ac_ext

    # OK, works on sane cases. Now check whether nonexistent headers
    # can be detected and how.
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <ac_nonexistent.h>
    _ACEOF
    if ac_fn_c_try_cpp "$LINENO"; then :
      # Broken: success on invalid input.
      continue

```

```

else
    # Passes both tests.
ac_preproc_ok=:
break
fi

rm -f conftest.err conftest.i conftest.$ac_ext

done
# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f conftest.i conftest.err conftest.$ac_ext
if $ac_preproc_ok; then :
    break
fi

done
ac_cv_prog_CPP=$CPP

fi
CPP=$ac_cv_prog_CPP
else
    ac_cv_prog_CPP=$CPP
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $CPP" >&5
$as_echo "$CPP" >&6; }
ac_preproc_ok=false
for ac_c_preproc_warn_flag in ' yes'
do
    # Use a header file that comes with gcc, so configuring glibc
    # with a fresh cross-compiler works.
    # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
    # <limits.h> exists even on freestanding compilers.
    # On the NeXT, cc -E runs the code through the compiler's parser,
    # not just through cpp. "Syntax error" is here to catch this case.
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h.  */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

        Syntax error

_ACEOF

```



```

if ac_fn_c_try_cpp "$LINENO"; then :

else
    # Broken: fails on valid input.
continue
fi

rm -f conftest.err conftest.i conftest.$ac_ext

    # OK, works on sane cases.  Now check whether nonexistent headers
    # can be detected and how.
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h.  */
#include <ac_nonexistent.h>
_ACEOF
if ac_fn_c_try_cpp "$LINENO"; then :
    # Broken: success on invalid input.
continue
else
    # Passes both tests.
ac_preproc_ok=:
break
fi

rm -f conftest.err conftest.i conftest.$ac_ext

done

# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f conftest.i conftest.err conftest.$ac_ext
if $ac_preproc_ok; then :

else
    { { $as_echo "$as_me:${as_lineno-$LINENO}: error: in \`${ac_pwd}':" >&5
$as_echo "$as_me: error: in \`${ac_pwd}':" >&2;}
as_fn_error $? "C preprocessor \"$CPP\" fails sanity check
See \`config.log' for more details" "$LINENO" 5; }
fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

```

```

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for grep that handles long lines
and -e" >&5
$as_echo_n "checking for grep that handles long lines and -e... " >&6; }
if ${ac_cv_path_GREP+:} false; then :
    $as_echo_n "(cached) " >&6
else
    if test -z "$GREP"; then
        ac_path_GREP_found=false
        # Loop through the user's path and test for each of PROGNAME-LIST
        as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
        for as_dir in $PATH$PATH_SEPARATOR/usr/xpg4/bin
        do
            IFS=$as_save_IFS
            test -z "$as_dir" && as_dir=.
            for ac_prog in grep ggrep; do
                for ac_exec_ext in '' $ac_executable_extensions; do
                    ac_path_GREP="$as_dir/$ac_prog$ac_exec_ext"
                    as_fn_executable_p "$ac_path_GREP" || continue
                done
                # Check for GNU ac_path_GREP and select it if it is found.
                # Check for GNU $ac_path_GREP
                case `"$ac_path_GREP" --version 2>&1` in
                    *GNU*)
                        ac_cv_path_GREP="$ac_path_GREP" ac_path_GREP_found=;;
                *)
                    ac_count=0
                    $as_echo_n 0123456789 >"conftest.in"
                    while :
                    do
                        cat "conftest.in" "conftest.in" >"conftest.tmp"
                        mv "conftest.tmp" "conftest.in"
                        cp "conftest.in" "conftest.nl"
                        $as_echo 'GREP' >> "conftest.nl"
                        "$ac_path_GREP" -e 'GREP$' -e '-(cannot match)-' < "conftest.nl"
                        >"conftest.out" 2>/dev/null || break
                        diff "conftest.out" "conftest.nl" >/dev/null 2>&1 || break
                        as_fn_arith $ac_count + 1 && ac_count=$as_val
                    done
                    if test $ac_count -gt ${ac_path_GREP_max-0}; then
                        # Best one so far, save it but keep looking for a better one
                        ac_cv_path_GREP="$ac_path_GREP"
                        ac_path_GREP_max=$ac_count
                    fi
                esac
            done
        done
    fi
fi

```

```

        fi
        # 10*(2^10) chars as input seems more than enough
        test $ac_count -gt 10 && break
    done
    rm -f conftest.in conftest.tmp conftest.nl conftest.out;;
esac

    $ac_path_GREP_found && break 3
done
done
done
IFS=$as_save_IFS
if test -z "$ac_cv_path_GREP"; then
    as_fn_error $? "no acceptable grep could be found in
$PATH$PATH_SEPARATOR/usr/xpg4/bin" "$LINENO" 5
fi
else
    ac_cv_path_GREP=$GREP
fi

fi

{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_path_GREP" >&5
$as_echo "$ac_cv_path_GREP" >&6; }
GREP="$ac_cv_path_GREP"

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for egrep" >&5
$as_echo_n "checking for egrep... " >&6; }
if ${ac_cv_path_EGREP+:} false; then :
    $as_echo_n "(cached) " >&6
else
    if echo a | $GREP -E '(a|b)' >/dev/null 2>&1
    then ac_cv_path_EGREP="$GREP -E"
    else
        if test -z "$EGREP"; then
            ac_path_EGREP_found=false
            # Loop through the user's path and test for each of PROGNAM-NAME-LIST
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH$PATH_SEPARATOR/usr/xpg4/bin
            do
                IFS=$as_save_IFS
                test -z "$as_dir" && as_dir=.

```

```

    for ac_prog in egrep; do
    for ac_exec_ext in '' $ac_executable_extensions; do
        ac_path_EGREP="$as_dir/$ac_prog$ac_exec_ext"
        as_fn_executable_p "$ac_path_EGREP" || continue
    # Check for GNU ac_path_EGREP and select it if it is found.
    # Check for GNU $ac_path_EGREP
    case `"$ac_path_EGREP" --version 2>&1` in
    *GNU*)
        ac_cv_path_EGREP="$ac_path_EGREP" ac_path_EGREP_found=;;;
    *)
        ac_count=0
        $as_echo_n 0123456789 >"conftest.in"
        while :
        do
            cat "conftest.in" "conftest.in" >"conftest.tmp"
            mv "conftest.tmp" "conftest.in"
            cp "conftest.in" "conftest.nl"
            $as_echo 'EGREP' >> "conftest.nl"
            "$ac_path_EGREP" 'EGREP$' < "conftest.nl" >"conftest.out" 2>/dev/null || break
            diff "conftest.out" "conftest.nl" >/dev/null 2>&1 || break
            as_fn_arith $ac_count + 1 && ac_count=$as_val
            if test $ac_count -gt ${ac_path_EGREP_max-0}; then
                # Best one so far, save it but keep looking for a better one
                ac_cv_path_EGREP="$ac_path_EGREP"
                ac_path_EGREP_max=$ac_count
            fi
            # 10*(2^10) chars as input seems more than enough
            test $ac_count -gt 10 && break
        done
        rm -f conftest.in conftest.tmp conftest.nl conftest.out;;
    esac

    $ac_path_EGREP_found && break 3
done
done
done
IFS=$as_save_IFS
if test -z "$ac_cv_path_EGREP"; then
    as_fn_error $? "no acceptable egrep could be found in
$PATH$PATH_SEPARATOR/usr/xpg4/bin" "$LINENO" 5
fi
else

```

```

    ac_cv_path_EGREP=$EGREP
fi

    fi
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_path_EGREP" >&5
$as_echo "$ac_cv_path_EGREP" >&6; }
EGREP="$ac_cv_path_EGREP"

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for ANSI C header files" >&5
$as_echo_n "checking for ANSI C header files... " >&6; }
if ${ac_cv_header_stdcl+:} false; then :
    $as_echo_n "(cached) " >&6
else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <stdlib.h>
#include <stdarg.h>
#include <string.h>
#include <float.h>

int
main ()
{

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
    ac_cv_header_stdcl=yes
else
    ac_cv_header_stdcl=no
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext

if test $ac_cv_header_stdcl = yes; then
    # SunOS 4.x string.h does not declare mem*, contrary to ANSI.
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <string.h>

```

```

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
    $EGREP "memchr" >/dev/null 2>&1; then :

else
    ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
    # ISC 2.0.2 stdlib.h does not declare free, contrary to ANSI.
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <stdlib.h>

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
    $EGREP "free" >/dev/null 2>&1; then :

else
    ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
    # /bin/cc in Irix-4.0.5 gets non-ANSI ctype macros unless using -ansi.
    if test "$cross_compiling" = yes; then :
    :
else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#include <ctype.h>
#include <stdlib.h>
#if ((' ' & 0x0FF) == 0x020)
# define ISLOWER(c) ('a' <= (c) && (c) <= 'z')
# define TOUPPER(c) (ISLOWER(c) ? 'A' + ((c) - 'a') : (c))
#else

```

```

# define ISLOWER(c) \
    (('a' <= (c) && (c) <= 'i') \
    || ('j' <= (c) && (c) <= 'r') \
    || ('s' <= (c) && (c) <= 'z'))
# define TOUPPER(c) (ISLOWER(c) ? ((c) | 0x40) : (c))
#endif

#define XOR(e, f) (((e) && !(f)) || (!(e) && (f)))
int
main ()
{
    int i;
    for (i = 0; i < 256; i++)
        if (XOR (islower (i), ISLOWER (i))
            || toupper (i) != TOUPPER (i))
            return 2;
    return 0;
}
_ACEOF
if ac_fn_c_try_run "$LINENO"; then :

else
    ac_cv_header_stdcl=no
fi
rm -f core *.core core.conftest.* gmon.out bb.out conftest$sac_exeext \
    conftest.$sac_objext conftest.beam conftest.$sac_ext
fi

fi

fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_header_stdcl" >&5
$as_echo "$ac_cv_header_stdcl" >&6; }
if test $ac_cv_header_stdcl = yes; then

$as_echo "#define STDC_HEADERS 1" >>confdefs.h

fi

# On IRIX 5.3, sys/types and inttypes.h are conflicting.
for ac_header in sys/types.h sys/stat.h stdlib.h string.h memory.h strings.h \
    inttypes.h stdint.h unistd.h
do :

```

```

    as_ac_Header=`$as_echo "ac_cv_header_$ac_header" | $as_tr_sh`
ac_fn_c_check_header_compile "$LINENO" "$ac_header" "$as_ac_Header"
"$ac_includes_default"
"
if eval test \"x\"$as_ac_Header\" = x\"yes\"; then :
    cat >>confdefs.h <<_ACEOF
#define ` $as_echo "HAVE_$ac_header" | $as_tr_cpp` 1
_ACEOF

fi

done

for ac_header in stdlib.h string.h sys/socket.h unistd.h
do :
    as_ac_Header=`$as_echo "ac_cv_header_$ac_header" | $as_tr_sh`
ac_fn_c_check_header_mongrel "$LINENO" "$ac_header" "$as_ac_Header"
"$ac_includes_default"
if eval test \"x\"$as_ac_Header\" = x\"yes\"; then :
    cat >>confdefs.h <<_ACEOF
#define ` $as_echo "HAVE_$ac_header" | $as_tr_cpp` 1
_ACEOF

fi

done

# Checks for typedefs, structures, and compiler characteristics.
{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for stdbool.h that conforms to
C99" >&5
$as_echo_n "checking for stdbool.h that conforms to C99... " >&6; }
if ${ac_cv_header_stdbool_h+:} false; then :
    $as_echo_n "(cached) " >&6
else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */

#include <stdbool.h>
#ifdef bool
    "error: bool is not defined"

```



```

#endif
#ifndef false
    "error: false is not defined"
#endif
#if false
    "error: false is not 0"
#endif
#ifndef true
    "error: true is not defined"
#endif
#if true != 1
    "error: true is not 1"
#endif
#ifndef __bool_true_false_are_defined
    "error: __bool_true_false_are_defined is not defined"
#endif

struct s { _Bool s: 1; _Bool t; } s;

char a[true == 1 ? 1 : -1];
char b[false == 0 ? 1 : -1];
char c[__bool_true_false_are_defined == 1 ? 1 : -1];
char d[(bool) 0.5 == true ? 1 : -1];
/* See body of main program for 'e'. */
char f[( _Bool) 0.0 == false ? 1 : -1];
char g[true];
char h[sizeof ( _Bool)];
char i[sizeof s.t];
enum { j = false, k = true, l = false * true, m = true * 256 };
/* The following fails for
    HP aC++/ANSI C B3910B A.05.55 [Dec 04 2003]. */
_Bool n[m];
char o[sizeof n == m * sizeof n[0] ? 1 : -1];
char p[-1 - ( _Bool) 0 < 0 && -1 - (bool) 0 < 0 ? 1 : -1];
/* Catch a bug in an HP-UX C compiler. See
    http://gcc.gnu.org/ml/gcc-patches/2003-12/msg02303.html
    http://lists.gnu.org/archive/html/bug-coreutils/2005-
11/msg00161.html
    */
_Bool q = true;
_Bool *pq = &q;

```

```

int
main ()
{

    bool e = &s;
    *pq |= q;
    *pq |= ! q;
    /* Refer to every declared value, to avoid compiler optimizations.
*/

    return (!a + !b + !c + !d + !e + !f + !g + !h + !i + !!j + !k + !!l
           + !m + !n + !o + !p + !q + !pq);

    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_compile "$LINENO"; then :
    ac_cv_header_stdbool_h=yes
else
    ac_cv_header_stdbool_h=no
fi
rm -f core conftest.err conftest.$ac_objext conftest.$ac_ext
fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_header_stdbool_h" >&5
$as_echo "$ac_cv_header_stdbool_h" >&6; }
    ac_fn_c_check_type "$LINENO" "_Bool" "ac_cv_type__Bool" "$ac_includes_default"
if test "x$ac_cv_type__Bool" = xyes; then :

cat >>confdefs.h <<_ACEOF
#define HAVE__BOOL 1
_ACEOF

fi

# Checks for library functions.
for ac_header in stdlib.h
do :
    ac_fn_c_check_header_mongrel "$LINENO" "stdlib.h" "ac_cv_header_stdlib_h"
"$ac_includes_default"

```

```

if test "x$sac_cv_header_stdlib_h" = xyes; then :
  cat >>confdefs.h <<_ACEOF
#define HAVE_STDLIB_H 1
_ACEOF

fi

done

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for GNU libc compatible malloc"
>&5
$as_echo_n "checking for GNU libc compatible malloc... " >&6; }
if ${ac_cv_func_malloc_0_nonnull+:} false; then :
  $as_echo_n "(cached) " >&6
else
  if test "$cross_compiling" = yes; then :
    ac_cv_func_malloc_0_nonnull=no
  else
    cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h. */
#ifdef STDC_HEADERS || defined HAVE_STDLIB_H
# include <stdlib.h>
#else
char *malloc ();
#endif

int
main ()
{
return ! malloc (0);

;
return 0;
}
_ACEOF
if ac_fn_c_try_run "$LINENO"; then :
  ac_cv_func_malloc_0_nonnull=yes
else
  ac_cv_func_malloc_0_nonnull=no
fi
rm -f core *.core core.conftest.* gmon.out bb.out conftest$sac_exeext \
  conftest.$ac_objext conftest.beam conftest.$ac_ext
fi

```

```

fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_func_malloc_0_nonnull"
>&5
$as_echo "$ac_cv_func_malloc_0_nonnull" >&6; }
if test $ac_cv_func_malloc_0_nonnull = yes; then :

$as_echo "#define HAVE_MALLOC 1" >>confdefs.h

else
    $as_echo "#define HAVE_MALLOC 0" >>confdefs.h

    case " $LIBOBJJS " in
        *" malloc.$ac_objext "*" ) ;;
        *) LIBOBJJS="$LIBOBJJS malloc.$ac_objext"
        ;;
    esac

$as_echo "#define malloc rpl_malloc" >>confdefs.h

fi

for ac_header in stdlib.h
do :
    ac_fn_c_check_header_mongrel "$LINENO" "stdlib.h" "ac_cv_header_stdlib_h"
"$ac_includes_default"
if test "x$ac_cv_header_stdlib_h" = xyes; then :
    cat >>confdefs.h <<_ACEOF
#define HAVE_STDLIB_H 1
_ACEOF

fi

done

{ $as_echo "$as_me:${as_lineno-$LINENO}: checking for GNU libc compatible realloc"
>&5
$as_echo_n "checking for GNU libc compatible realloc... " >&6; }
if ${ac_cv_func_realloc_0_nonnull+:} false; then :
    $as_echo_n "(cached) " >&6

```

```

else
    if test "$cross_compiling" = yes; then :
        ac_cv_func_realloc_0_nonnull=no
    else
        cat confdefs.h - <<_ACEOF >conftest.$ac_ext
/* end confdefs.h.  */
#ifdef STDC_HEADERS || defined HAVE_STDLIB_H
#include <stdlib.h>
#else
char *realloc ();
#endif

int
main ()
{
return ! realloc (0, 0);
    ;
    return 0;
}
_ACEOF
if ac_fn_c_try_run "$LINENO"; then :
    ac_cv_func_realloc_0_nonnull=yes
else
    ac_cv_func_realloc_0_nonnull=no
fi
rm -f core *.core core.conftest.* gmon.out bb.out conftest$ac_exeext \
    conftest.$ac_objext conftest.beam conftest.$ac_ext
fi

fi
{ $as_echo "$as_me:${as_lineno-$LINENO}: result: $ac_cv_func_realloc_0_nonnull"
>&5
$as_echo "$ac_cv_func_realloc_0_nonnull" >&6; }
if test $ac_cv_func_realloc_0_nonnull = yes; then :

$as_echo "#define HAVE_REALLOC 1" >>confdefs.h

else
    $as_echo "#define HAVE_REALLOC 0" >>confdefs.h

    case " $LIBOBJJS " in
        *" realloc.$ac_objext "*" ) ;;
    esac

```

```

*) LIBOBJS="$LIBOBJS realloc.$ac_objext"
;;
esac

$as_echo "#define realloc rpl_realloc" >>confdefs.h

fi

for ac_func in pow socket strchr strcspn strpbrk strtol
do :
    as_ac_var=`$as_echo "ac_cv_func_$ac_func" | $as_tr_sh`
    ac_fn_c_check_func "$LINENO" "$ac_func" "$as_ac_var"
    if eval test \"x\${$as_ac_var}\" = x\"yes\"; then :
        cat >>confdefs.h <<_ACEOF
#define ` $as_echo "HAVE_$ac_func" | $as_tr_cpp` 1
_ACEOF
    fi
done

ac_config_files="$ac_config_files cmake-build-debug/Makefile"

cat >confcache <<\_ACEOF
# This file is a shell script that caches the results of configure
# tests run on this system so they can be shared between configure
# scripts and configure runs, see configure's option --config-cache.
# It is not useful on other systems.  If it contains results you don't
# want to keep, you may remove or edit it.
#
# config.status only pays attention to the cache file if you give it
# the --recheck option to rerun configure.
#
# `ac_cv_env_foo' variables (set or unset) will be overridden when
# loading this file, other *unset* `ac_cv_foo' will be assigned the
# following values.

_ACEOF

# The following way of writing the cache mishandles newlines in values,

```

```

# but we know of no workaround that is simple, portable, and efficient.
# So, we kill variables containing newlines.
# Ultrix sh set writes to stderr and can't be redirected directly,
# and sets the high bit in the cache file unless we assign to the vars.
(
  for ac_var in `(set) 2>&1 | sed -n 's/^\([a-zA-Z_][a-zA-Z0-9_]*\)=.*/\1/p`; do
    eval ac_val=\${$ac_var}
    case $ac_val in #(
      *${as_nl}*)
        case $ac_var in #(
          *_cv_*) { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: cache variable
$ac_var contains a newline" >&5
$as_echo "$as_me: WARNING: cache variable $ac_var contains a newline" >&2;} ;;
        esac
      case $ac_var in #(
        _ | IFS | as_nl) ;; #(
        BASH_ARGV | BASH_SOURCE) eval $ac_var= ;; #(
        *) { eval $ac_var=; unset $ac_var;} ;;
      esac ;;
    esac
  done

  (set) 2>&1 |
    case $as_nl`(ac_space=' '; set) 2>&1` in #(
      *${as_nl}ac_space=\ *)
        # `set' does not quote correctly, so add quotes: double-quote
        # substitution turns \\ into \, and sed turns \ into \.
        sed -n \
          "s/'/'\\\\\\'/g;
          s/^\([_$_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*\)\\)=\\(.*\\)/\\1='\\2'/p"
        ;; #(
      *)
        # `set' quotes correctly as required by POSIX, so do not add quotes.
        sed -n "/^[_$_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*=/p"
        ;;
    esac |
    sort
  ) |
  sed '
    /^ac_cv_env_/b end
    t clear
    :clear

```

```

s/^\([^=]*\)=(.*[{}].*)$/test "${\1+set}" = set || &/
t end
s/^\([^=]*\)=(.*\)$/\1=${\1=\2}/
:end' >>confcache
if diff "$cache_file" confcache >/dev/null 2>&1; then ;; else
  if test -w "$cache_file"; then
    if test "x$cache_file" != "x/dev/null"; then
      { $as_echo "$as_me:${as_lineno-$LINENO}: updating cache $cache_file" >&5
$as_echo "$as_me: updating cache $cache_file" >&6;}
      if test ! -f "$cache_file" || test -h "$cache_file"; then
        cat confcache >"$cache_file"
      else
        case $cache_file in #(
          /* | ?:* )
            mv -f confcache "$cache_file"$$ &&
            mv -f "$cache_file"$$ "$cache_file" ;; #(
          *)
            mv -f confcache "$cache_file" ;;
        esac
      fi
    fi
  else
    { $as_echo "$as_me:${as_lineno-$LINENO}: not updating unwritable cache
$cache_file" >&5
$as_echo "$as_me: not updating unwritable cache $cache_file" >&6;}
    fi
  fi
rm -f confcache

test "x$prefix" = xNONE && prefix=$ac_default_prefix
# Let make expand exec_prefix.
test "x$exec_prefix" = xNONE && exec_prefix='${prefix}'

DEFS=-DHAVE_CONFIG_H

ac_libobjs=
ac_ltlibobjs=
U=
for ac_i in : $LIBOBJS; do test "x$ac_i" = x: && continue
# 1. Remove the extension, and $U if already installed.
ac_script='s/\$U\././;s/\.o$//;s/\.obj$//'
ac_i=`$as_echo "$ac_i" | sed "s/$ac_script"`

```



```

# 2. Prepend LIBOBJDIR.  When used with automake>=1.10 LIBOBJDIR
#    will be set to the directory where LIBOBJJS objects are built.
as_fn_append ac_libobjs " \${LIBOBJDIR}$ac_i\${U}.${ac_objext}"
as_fn_append ac_ltlibobjs " \${LIBOBJDIR}$ac_i"'\${U}.lo'
done

LIBOBJJS=$ac_libobjs

LTLIBOBJJS=$ac_ltlibobjs


: "${CONFIG_STATUS=./config.status}"
ac_write_fail=0
ac_clean_files_save=$ac_clean_files
ac_clean_files="$ac_clean_files $CONFIG_STATUS"
{ $as_echo "$as_me:${as_lineno-$LINENO}: creating $CONFIG_STATUS" >&5
$as_echo "$as_me: creating $CONFIG_STATUS" >&6;}
as_write_fail=0
cat >$CONFIG_STATUS <<_ASEOF || as_write_fail=1
#! $SHELL
# Generated by $as_me.
# Run this file to recreate the current configuration.
# Compiler output produced by configure, useful for debugging
# configure, is in config.log if it exists.


debug=false
ac_cs_recheck=false
ac_cs_silent=false


SHELL=\${CONFIG_SHELL-$SHELL}
export SHELL
_ASEOF
cat >>$CONFIG_STATUS <<\_ASEOF || as_write_fail=1
## ----- ##
## M4sh Initialization. ##
## ----- ##


# Be more Bourne compatible
DUALCASE=1; export DUALCASE # for MKS sh
if test -n "${ZSH_VERSION+set}" && (emulate sh) >/dev/null 2>&1; then :
    emulate sh
    NULLCMD=:

```



```

    arg=`expr "X$arg" : ".$$as_nl\\(.*\\)"`;
    esac;
    expr "X$arg" : "X\\(.*\\)" | tr -d "$as_nl"
,
    export as_echo_n_body
    as_echo_n='sh -c $as_echo_n_body as_echo'
fi
    export as_echo_body
    as_echo='sh -c $as_echo_body as_echo'
fi

# The user is always right.
if test "${PATH_SEPARATOR+set}" != set; then
    PATH_SEPARATOR=:
    (PATH='/bin;/bin'; FPATH=$PATH; sh -c :) >/dev/null 2>&1 && {
        (PATH='/bin:/bin'; FPATH=$PATH; sh -c :) >/dev/null 2>&1 ||
            PATH_SEPARATOR=';'
    }
fi

# IFS
# We need space, tab and new line, in precisely that order.  Quoting is
# there to prevent editors from complaining about space-tab.
# (If _AS_PATH_WALK were called with IFS unset, it would disable word
# splitting by setting IFS to empty value.)
IFS=" " "$as_nl"

# Find who we are.  Look in the path if we contain no directory separator.
as_myself=
case $0 in #((
    *[\ \/]* ) as_myself=$0 ;;
    *) as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
    for as_dir in $PATH
    do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        test -r "$as_dir/$0" && as_myself=$as_dir/$0 && break
    done
IFS=$as_save_IFS

;;

```

```

esac
# We did not find ourselves, most probably we were run as `sh COMMAND'
# in which case we are not to be found in the path.
if test "x$as_myself" = x; then
    as_myself=$0
fi
if test ! -f "$as_myself"; then
    $as_echo "$as_myself: error: cannot find myself; rerun with an absolute file
name" >&2
    exit 1
fi

# Unset variables that we do not need and which cause bugs (e.g. in
# pre-3.0 UWIN ksh). But do not cause bugs in bash 2.01; the "|| exit 1"
# suppresses any "Segmentation fault" message there. '(' could
# trigger a bug in pdksh 5.2.14.
for as_var in BASH_ENV ENV MAIL MAILPATH
do eval test x\${$as_var+set} = xset \
    && ( (unset $as_var) || exit 1) >/dev/null 2>&1 && unset $as_var || :
done
PS1='$ '
PS2='> '
PS4='+ '

# NLS nuisances.
LC_ALL=C
export LC_ALL
LANGUAGE=C
export LANGUAGE

# CDPATH.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# as_fn_error STATUS ERROR [LINENO LOG_FD]
# -----
# Output "`basename $0`: error: ERROR" to stderr. If LINENO and LOG_FD are
# provided, also output the error to LOG_FD, referencing LINENO. Then exit the
# script with STATUS, using 1 if that was 0.
as_fn_error ()
{
    as_status=$1; test $as_status -eq 0 && as_status=1

```

```

if test "$4"; then
    as_lineno=${as_lineno-"$3"} as_lineno_stack=as_lineno_stack=$as_lineno_stack
    $as_echo "$as_me:${as_lineno-$LINENO}: error: $2" >&$4
fi
$as_echo "$as_me: error: $2" >&2
as_fn_exit $as_status
} # as_fn_error

# as_fn_set_status STATUS
# -----
# Set $? to STATUS, without forking.
as_fn_set_status ()
{
    return $1
} # as_fn_set_status

# as_fn_exit STATUS
# -----
# Exit the shell with STATUS, even in a "trap 0" or "set -e" context.
as_fn_exit ()
{
    set +e
    as_fn_set_status $1
    exit $1
} # as_fn_exit

# as_fn_unset VAR
# -----
# Portably unset VAR.
as_fn_unset ()
{
    { eval $1=; unset $1;}
}
as_unset=as_fn_unset
# as_fn_append VAR VALUE
# -----
# Append the text in VALUE to the end of the definition contained in VAR. Take
# advantage of any shell optimizations that allow amortized linear growth over
# repeated appends, instead of the typical quadratic growth present in naive
# implementations.
if (eval "as_var=1; as_var+=2; test x\$as_var = x12") 2>/dev/null; then :

```

```

    eval 'as_fn_append ()
    {
        eval $1+=\$2
    }'
else
    as_fn_append ()
    {
        eval $1=\${$1}\$2
    }
fi # as_fn_append

# as_fn_arith ARG...
# -----
# Perform arithmetic evaluation on the ARGs, and store the result in the
# global $as_val. Take advantage of shells that can avoid forks. The arguments
# must be portable across $(( )) and expr.
if (eval "test \${( 1 + 1 )} = 2") 2>/dev/null; then :
    eval 'as_fn_arith ()
    {
        as_val=$(( $* ))
    }'
else
    as_fn_arith ()
    {
        as_val=`expr "$@" || test $? -eq 1`
    }
fi # as_fn_arith

if expr a : '\(a\)' >/dev/null 2>&1 &&
    test "X`expr 00001 : '.*\(...\)`" = X001; then
    as_expr=expr
else
    as_expr=false
fi

if (basename -- /) >/dev/null 2>&1 && test "X`basename -- / 2>&1`" = "X/"; then
    as_basename=basename
else
    as_basename=false
fi

```

```

if (as_dir=`dirname -- /` && test "X$as_dir" = X/) >/dev/null 2>&1; then
    as_dirname=dirname
else
    as_dirname=false
fi

as_me=`$as_basename -- "$0" ||
$as_expr X/"$0" : '.*\/\([^\/]*\)/*$' \|| \
    X"$0" : 'X\(/\/\) $' \|| \
    X"$0" : 'X\(/\/\) ' \|| . 2>/dev/null ||
$as_echo X/"$0" |
    sed '/^.*\/\([^\/]*\)\/*$/ {
        s//\1/
        q
    }
/^X\/\(\\/\)\$/ {
    s//\1/
    q
}
/^X\/\(\\/\) .*/ {
    s//\1/
    q
}
s/.*\/./; q'`

# Avoid depending upon Character Ranges.
as_cr_letters='abcdefghijklmnopqrstuvwxyz'
as_cr_LETTERS='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
as_cr_Letters=$as_cr_letters$as_cr_LETTERS
as_cr_digits='0123456789'
as_cr_alnum=$as_cr_Letters$as_cr_digits

ECHO_C= ECHO_N= ECHO_T=
case `echo -n x` in #((((
-n*))
    case `echo 'xy\c'` in
    *c*) ECHO_T=' ';; # ECHO_T is single tab character.
    xy) ECHO_C='\c';;
    *) echo `echo ksh88 bug on AIX 6.1` > /dev/null
        ECHO_T=' ';;
    esac;;
*)

```

```

    ECHO_N='-n';;
esac

rm -f conf$$ conf$$$.exe conf$$$.file
if test -d conf$$$.dir; then
    rm -f conf$$$.dir/conf$$$.file
else
    rm -f conf$$$.dir
    mkdir conf$$$.dir 2>/dev/null
fi
if (echo >conf$$$.file) 2>/dev/null; then
    if ln -s conf$$$.file conf$$ 2>/dev/null; then
        as_ln_s='ln -s'
        # ... but there are two gotchas:
        # 1) On MSYS, both `ln -s file dir' and `ln file dir' fail.
        # 2) DJGPP < 2.04 has no symlinks; `ln -s' creates a wrapper executable.
        # In both cases, we have to default to `cp -pR'.
        ln -s conf$$$.file conf$$$.dir 2>/dev/null && test ! -f conf$$$.exe ||
            as_ln_s='cp -pR'
    elif ln conf$$$.file conf$$ 2>/dev/null; then
        as_ln_s=ln
    else
        as_ln_s='cp -pR'
    fi
else
    as_ln_s='cp -pR'
fi
rm -f conf$$ conf$$$.exe conf$$$.dir/conf$$$.file conf$$$.file
rmdir conf$$$.dir 2>/dev/null

# as_fn_mkdir_p
# -----
# Create "$as_dir" as a directory, including parents if necessary.
as_fn_mkdir_p ()
{
    case $as_dir in #(
    -*) as_dir=./$as_dir;;
    esac
    test -d "$as_dir" || eval $as_mkdir_p || {
        as_dirs=

```



```

while ;; do
    case $as_dir in #(
        *\'*) as_qdir=`$as_echo "$as_dir" | sed "s/'/'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\'/g"`;; #'(
        *) as_qdir=$as_dir;;
    esac
    as_dirs="'$as_qdir' $as_dirs"
    as_dir=`$as_dirname -- "$as_dir" ||
$as_expr X"$as_dir" : 'X\([^\/]\)\/*\([^\/]\)\/*$' \|| \
    X"$as_dir" : 'X\(/\)\([^\/]\)' \|| \
    X"$as_dir" : 'X\(/\)\$' \|| \
    X"$as_dir" : 'X\(/\)' \|| . 2>/dev/null ||
$as_echo X"$as_dir" |
    sed '/^X\([^\/]\)\*\([^\/]\)\*\$/{
        s//\1/
        q
    }
/^X\(\\\\/\)\([^\/]\).*/{
    s//\1/
    q
}
/^X\(\\\\/\)\$/{
    s//\1/
    q
}
/^X\(\\\\/\).*/{
    s//\1/
    q
}
s/.*\/./; q'`
    test -d "$as_dir" && break
done
test -z "$as_dirs" || eval "mkdir $as_dirs"
} || test -d "$as_dir" || as_fn_error $? "cannot create directory $as_dir"

} # as_fn_mkdir_p
if mkdir -p . 2>/dev/null; then
    as_mkdir_p='mkdir -p "$as_dir"'
else
    test -d ./-p && rmdir ./-p
    as_mkdir_p=false
fi

```

```

# as_fn_executable_p FILE
# -----
# Test if FILE is an executable regular file.
as_fn_executable_p ()
{
    test -f "$1" && test -x "$1"
} # as_fn_executable_p
as_test_x='test -x'
as_executable_p=as_fn_executable_p

# Sed expression to map a string onto a valid CPP name.
as_tr_cpp="eval sed 'y%*$as_cr_letters%P$as_cr_LETTERS%;s%[^_$as_cr_alnum]%%_g'"

# Sed expression to map a string onto a valid variable name.
as_tr_sh="eval sed 'y%*+%pp%;s%[^_$as_cr_alnum]%%_g'"

exec 6>&1
## ----- ##
## Main body of $CONFIG_STATUS script. ##
## ----- ##
_ACEOF
test $as_write_fail = 0 && chmod +x $CONFIG_STATUS || ac_write_fail=1

cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
# Save the log message, to keep $0 and so on meaningful, and to
# report actual input values of CONFIG_FILES etc. instead of their
# values after options handling.
ac_log="
This file was extended by FULL-PACKAGE-NAME $as_me VERSION, which was
generated by GNU Autoconf 2.69.  Invocation command line was

    CONFIG_FILES    = $CONFIG_FILES
    CONFIG_HEADERS  = $CONFIG_HEADERS
    CONFIG_LINKS    = $CONFIG_LINKS
    CONFIG_COMMANDS = $CONFIG_COMMANDS
$ $0 $@

on `(hostname || uname -n) 2>/dev/null | sed 1q`
"

```

_ACEOF

```
case $ac_config_files in *)
    set x $ac_config_files; shift; ac_config_files=$*;
esac

case $ac_config_headers in *)
    set x $ac_config_headers; shift; ac_config_headers=$*;
esac
```

```
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
# Files that config.status was made for.
config_files="$ac_config_files"
config_headers="$ac_config_headers"
```

_ACEOF

```
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
ac_cs_usage="\
`$as_me' instantiates files and other configuration actions
from templates according to the current configuration. Unless the files
and actions are specified as TAGs, all are instantiated by default.
```

Usage: \$0 [OPTION]... [TAG]...

```
-h, --help          print this help, then exit
-V, --version       print version number and configuration settings, then exit
--config           print configuration, then exit
-q, --quiet, --silent
                    do not print progress messages
-d, --debug         don't remove temporary files
--recheck          update $as_me by reconfiguring in the same conditions
--file=FILE[:TEMPLATE]
                    instantiate the configuration file FILE
--header=FILE[:TEMPLATE]
                    instantiate the configuration header FILE
```

Configuration files:

\$config_files

Configuration headers:

\$config_headers

Report bugs to <BUG-REPORT-ADDRESS>."

```
_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
ac_cs_config="\$as_echo      "$ac_configure_args"      |      sed      's/^      //;
s/[\\"\"\\\"\\$]/\\\\\\\\&/g'`"
ac_cs_version="\\"
FULL-PACKAGE-NAME config.status VERSION
configured by $0, generated by GNU Autoconf 2.69,
  with options \\"$ac_cs_config\\""
```

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This config.status script is free software; the Free Software Foundation gives unlimited permission to copy, distribute and modify it."

```
ac_pwd='$ac_pwd'
srcdir='$srcdir'
test -n "$AWK" || AWK=awk
_ACEOF
```

```
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
# The default lists apply if the user does not specify any file.
ac_need_defaults=:
while test $# != 0
do
  case $1 in
    --*=?)
      ac_option=`expr "X$1" : 'X\[^\]=*\)`
      ac_optarg=`expr "X$1" : 'X\[^\]=*\(.*\)`
      ac_shift=:
      ;;
    --*=)
      ac_option=`expr "X$1" : 'X\[^\]=*\)`
      ac_optarg=
      ac_shift=:
      ;;
    *)
      ac_option=$1
      ac_optarg=$2
```

```

    ac_shift=shift
    ;;
esac

case $ac_option in
# Handling of the options.
--recheck | --recheck | --recheck | --reche | --rech | --rec | --re | --r)
    ac_cs_recheck=: ;;
--version | --versio | --versi | --vers | --ver | --ve | --v | -V )
    $as_echo "$ac_cs_version"; exit ;;
--config | --confi | --conf | --con | --co | --c )
    $as_echo "$ac_cs_config"; exit ;;
--debug | --debu | --deb | --de | --d | -d )
    debug=: ;;
--file | --fil | --fi | --f )
    $ac_shift
    case $ac_optarg in
        *\') ac_optarg=`$as_echo "$ac_optarg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
        ') as_fn_error $? "missing file argument" ;;
    esac
    as_fn_append CONFIG_FILES " '$ac_optarg'"
    ac_need_defaults=false;;
--header | --heade | --head | --hea )
    $ac_shift
    case $ac_optarg in
        *\') ac_optarg=`$as_echo "$ac_optarg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
    esac
    as_fn_append CONFIG_HEADERS " '$ac_optarg'"
    ac_need_defaults=false;;
--he | --h)
    # Conflict between --help and --header
    as_fn_error $? "ambiguous option: \`$1'"
Try \`$0 --help' for more information.";;
--help | --hel | -h )
    $as_echo "$ac_cs_usage"; exit ;;
-q | -quiet | --quiet | --quie | --qui | --qu | --q \
| -silent | --silent | --silen | --sile | --sil | --si | --s)
    ac_cs_silent=: ;;

# This is an error.
-*) as_fn_error $? "unrecognized option: \`$1'"
Try \`$0 --help' for more information." ;;

```

```

*) as_fn_append ac_config_targets " $1"
   ac_need_defaults=false ;;

esac
shift
done

ac_configure_extra_args=

if $ac_cs_silent; then
  exec 6>/dev/null
  ac_configure_extra_args="$ac_configure_extra_args --silent"
fi

_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
if \ $ac_cs_recheck; then
  set X $SHELL '$0' $ac_configure_args \ $ac_configure_extra_args --no-create --
no-recursion
  shift
  \ $as_echo "running CONFIG_SHELL=$SHELL \$*" >&6
  CONFIG_SHELL='$SHELL'
  export CONFIG_SHELL
  exec "\$@"
fi

_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
exec 5>>config.log
{
  echo
  sed 'h;s/./-/g;s/^\.../## /;s/...$/ ##/;p;x;p;x' <<_ASBOX
## Running $as_me. ##
_ASBOX
  $as_echo "$ac_log"
} >&5

_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
_ACEOF

```

```

cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1

# Handling of arguments.
for ac_config_target in $ac_config_targets
do
    case $ac_config_target in
        "config.h") CONFIG_HEADERS="$CONFIG_HEADERS config.h" ;;
        "cmake-build-debug/Makefile") CONFIG_FILES="$CONFIG_FILES      cmake-build-
debug/Makefile" ;;

        *) as_fn_error $? "invalid argument: \`$ac_config_target'" "$LINENO" 5;;
    esac
done

# If the user did not use the arguments to specify the items to instantiate,
# then the envvar interface is used.  Set only those that are not.
# We use the long form for the default assignment because of an extremely
# bizarre bug on SunOS 4.1.3.
if $ac_need_defaults; then
    test "${CONFIG_FILES+set}" = set || CONFIG_FILES=$config_files
    test "${CONFIG_HEADERS+set}" = set || CONFIG_HEADERS=$config_headers
fi

# Have a temporary directory for convenience.  Make it in the build tree
# simply because there is no reason against having it here, and in addition,
# creating and moving files from /tmp can sometimes cause problems.
# Hook for its removal unless debugging.
# Note that there is a small window in which the directory will not be cleaned:
# after its creation but before its name has been assigned to `$tmp'.
$debug ||
{
    tmp= ac_tmp=
    trap 'exit_status=$?
: "${ac_tmp:=$tmp}"
{ test ! -d "$ac_tmp" || rm -fr "$ac_tmp"; } && exit $exit_status
' 0
    trap 'as_fn_exit 1' 1 2 13 15
}
# Create a (secure) tmp directory for tmp files.

{

```

```

tmp=`(umask 077 && mktemp -d "./confXXXXXX") 2>/dev/null` &&
test -d "$tmp"
} ||
{
tmp=./conf$$-$RANDOM
(umask 077 && mkdir "$tmp")
} || as_fn_error $? "cannot create a temporary directory in ." "$LINENO" 5
ac_tmp=$tmp

# Set up the scripts for CONFIG_FILES section.
# No need to generate them if there are no CONFIG_FILES.
# This happens for instance with `./config.status config.h'.
if test -n "$CONFIG_FILES"; then

ac_cr=`echo X | tr X '\015'`
# On cygwin, bash can eat \r inside `` if the user requested igncr.
# But we know of no other shell where ac_cr would be empty at this
# point, so we can use a bashism as a fallback.
if test "x$ac_cr" = x; then
eval ac_cr=\$\'\r\'
fi
ac_cs_awk_cr=`$AWK 'BEGIN { print "a\rb" }' </dev/null 2>/dev/null`
if test "$ac_cs_awk_cr" = "a${ac_cr}b"; then
ac_cs_awk_cr='\r'
else
ac_cs_awk_cr=$ac_cr
fi

echo 'BEGIN {' >"$ac_tmp/subs1.awk" &&
_ACEOF

{
echo "cat >conf$$subs.awk <<_ACEOF" &&
echo "$ac_subst_vars" | sed 's/.*/&!\$&$ac_delim/' &&
echo "_ACEOF"
} >conf$$subs.sh ||
as_fn_error $? "could not make $CONFIG_STATUS" "$LINENO" 5
ac_delim_num=`echo "$ac_subst_vars" | grep -c '^'`
ac_delim='%!_# '
for ac_last_try in false false false false false ;; do

```



```

. ./conf$$subs.sh ||
as_fn_error $? "could not make $CONFIG_STATUS" "$LINENO" 5

ac_delim_n=`sed -n "s/.*$ac_delim$/X/p" conf$$subs.awk | grep -c X`
if test $ac_delim_n = $ac_delim_num; then
    break
elif $ac_last_try; then
    as_fn_error $? "could not make $CONFIG_STATUS" "$LINENO" 5
else
    ac_delim="$ac_delim!$ac_delim_$ac_delim!! "
fi
done
rm -f conf$$subs.sh

cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
cat >>"$ac_tmp/subs1.awk" <<\_ACAWK &&
\_ACEOF
sed -n '
h
s/^/S["/; s/!.*"/]=/
p
g
s/^[^!]*!//
:repl
t repl
s/"$ac_delim"$//
t delim
:nl
h
s/\(.{148}\)\..*/\1/
t more1
s/["\\]/\\&/g; s/^"/; s/$/\\n"\\
p
n
b repl
:more1
s/["\\]/\\&/g; s/^"/; s/$/""\\
p
g
s/.\{148\}//
t nl
:delim

```

```

h
s/\(.\{148\}\)\..*/\1/
t more2
s/["\\]/\\&/g; s/^"/; s/$"/
p
b
:more2
s/["\\]/\\&/g; s/^"/; s/$"/
p
g
s/.\{148\}//
t delim
' <conf$$subs.awk | sed '
/^[^"]/{
    N
    s/\n//
}
' >>$CONFIG_STATUS || ac_write_fail=1
rm -f conf$$subs.awk
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
_ACAWK
cat >>"$ac_tmp/subs1.awk" <<_ACAWK &&
    for (key in S) S_is_set[key] = 1
    FS = "
"

}
{
    line = $ 0
    nfields = split(line, field, "@")
    substed = 0
    len = length(field[1])
    for (i = 2; i < nfields; i++) {
        key = field[i]
        keylen = length(key)
        if (S_is_set[key]) {
            value = S[key]
            line = substr(line, 1, len) "" value "" substr(line, len + keylen + 3)
            len += length(value) + length(field[++i])
            substed = 1
        } else
            len += 1 + keylen
    }
}

```

```

    }

    print line
}

_ACAWK
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
if sed "s/$ac_cr//" < /dev/null > /dev/null 2>&1; then
    sed "s/$ac_cr\\$//; s/$ac_cr/$ac_cs_awk_cr/g"
else
    cat
fi < "$ac_tmp/subs1.awk" > "$ac_tmp/subs.awk" \
    || as_fn_error $? "could not setup config files machinery" "$LINENO" 5
_ACEOF

# VPATH may cause trouble with some makes, so we remove sole $(srcdir),
# ${srcdir} and @srcdir@ entries from VPATH if srcdir is ".", strip leading and
# trailing colons and then remove the whole line if VPATH becomes empty
# (actually we leave an empty line to preserve line numbers).
if test "x$srcdir" = x.; then
    ac_vpsub='/^[      ]*VPATH[      ]*=[      ]*/{
h
s///
s/^\://
s/[      ]*$/://
s/:\$(srcdir):://g
s/:\${srcdir}:://g
s/:@srcdir@:://g
s/^\:*/
s/:\:*/
x
s/\(=[      ]*\)\.*/\1/
G
s/\n//
s/^[^=]*=[      ]*$/
}'
fi

cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
fi # test -n "$CONFIG_FILES"

```

```

# Set up the scripts for CONFIG_HEADERS section.
# No need to generate them if there are no CONFIG_HEADERS.
# This happens for instance with `./config.status Makefile'.
if test -n "$CONFIG_HEADERS"; then
cat >"$ac_tmp/defines.awk" <<\_ACAWK ||
BEGIN {
\_ACEOF

# Transform confdefs.h into an awk script `defines.awk', embedded as
# here-document in config.status, that substitutes the proper values into
# config.h.in to produce config.h.

# Create a delimiter string that does not exist in confdefs.h, to ease
# handling of long lines.
ac_delim='%!_!# '
for ac_last_try in false false ;; do
  ac_tt=`sed -n "/$ac_delim/p" confdefs.h`
  if test -z "$ac_tt"; then
    break
  elif $ac_last_try; then
    as_fn_error $? "could not make $CONFIG_HEADERS" "$LINENO" 5
  else
    ac_delim="$ac_delim!$ac_delim _$ac_delim!! "
  fi
done

# For the awk script, D is an array of macro values keyed by name,
# likewise P contains macro parameters if any. Preserve backslash
# newline sequences.

ac_word_re=[_$_cr_Letters][_$_cr_alnum]*
sed -n '
s/.\{148\}/&'"$ac_delim"'/g
t rset
:rset
s/^[ ]*#[ ]*define[ ]*[ ]*/ /
t def
d
:def
s/\\$//
t bsnl
s/["\\]/\\&/g

```

```

s/^ \("$ac_word_re"\)\(((^())*)\) [          ]*\(.*\)/P["\1"]="\2"\
D["\1"]=" \3"/p
s/^ \("$ac_word_re"\) [          ]*\(.*\)/D["\1"]=" \2"/p
d
:bsnl
s/["\\]/\\&/g
s/^ \("$ac_word_re"\)\(((^())*)\) [          ]*\(.*\)/P["\1"]="\2"\
D["\1"]=" \3\\\\\\n"\\p
t cont
s/^ \("$ac_word_re"\) [          ]*\(.*\)/D["\1"]=" \2\\\\\\n"\\p
t cont
d
:cont
n
s/.\{148\}/&"$ac_delim"/g
t clear
:clear
s/\\$/ /
t bsnlc
s/["\\]/\\&/g; s/^"/; s/$"/p
d
:bsnlc
s/["\\]/\\&/g; s/^"/; s$/\\\\\\n"\\p
b cont
' <confdefs.h | sed '
s/"$ac_delim"/"\\
"/g' >>$CONFIG_STATUS || ac_write_fail=1

cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
  for (key in D) D_is_set[key] = 1
  FS = "
"
}
/^[ \t ]*#[ \t ]*(define|undef)[ \t ]+${ac_word_re}([ \t ()|\\$)/ {
  line = \ $ 0
  split(line, arg, " ")
  if (arg[1] == "#") {
    defundef = arg[2]
    mac1 = arg[3]
  } else {
    defundef = substr(arg[1], 2)
    mac1 = arg[2]
  }
}

```

```

}
split(mac1, mac2, "(") #)
macro = mac2[1]
prefix = substr(line, 1, index(line, defundef) - 1)
if (D_is_set[macro]) {
    # Preserve the white space surrounding the "#".
    print prefix "define", macro P[macro] D[macro]
    next
} else {
    # Replace #undef with comments. This is necessary, for example,
    # in the case of _POSIX_SOURCE, which is predefined and required
    # on some systems where configure will not decide to define it.
    if (defundef == "undef") {
        print "/*", prefix defundef, macro, "*/"
        next
    }
}
}
{ print }
_ACAWK
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
    as_fn_error $? "could not setup config headers machinery" "$LINENO" 5
fi # test -n "$CONFIG_HEADERS"

```

```

eval set X " :F $CONFIG_FILES :H $CONFIG_HEADERS "
shift
for ac_tag
do
    case $ac_tag in
        :[FHL]) ac_mode=$ac_tag; continue;;
    esac
    case $ac_mode$ac_tag in
        :[FHL]*:*) ;;
        :L* | :C*:*) as_fn_error $? "invalid tag \`$ac_tag'" "$LINENO" 5;;
        :[FH]-) ac_tag=-:-;;
        :[FH]*) ac_tag=$ac_tag:$ac_tag.in;;
    esac
    ac_save_IFS=$IFS
    IFS=:
    set x $ac_tag

```

```

IFS=$ac_save_IFS
shift
ac_file=$1
shift

case $ac_mode in
:L) ac_source=$1;;
:[FH])
    ac_file_inputs=
    for ac_f
    do
        case $ac_f in
        -) ac_f="$ac_tmp/stdin";;
        *) # Look for the file first in the build tree, then in the source tree
           # (if the path is not absolute). The absolute path cannot be DOS-style,
           # because $ac_f cannot contain `:`.
           test -f "$ac_f" ||
               case $ac_f in
               [\\/$]*) false;;
               *) test -f "$srcdir/$ac_f" && ac_f="$srcdir/$ac_f";;
               esac ||
                   as_fn_error 1 "cannot find input file: \"$ac_f\" \"$LINENO\" 5;;
           esac
           case $ac_f in *\`*) ac_f=`$as_echo "$ac_f" | sed "s/'/'\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\'/g"`;; esac
           as_fn_append ac_file_inputs " '$ac_f'"
        done

    # Let's still pretend it is `configure' which instantiates (i.e., don't
    # use $as_me), people would be surprised to read:
    # /* config.h. Generated by config.status. */
    configure_input='Generated from '`
        $as_echo "$*" | sed 's|^[^:]*||;s|:[^:]*|, |g'
    `' by configure.'
    if test x"$ac_file" != x-; then
        configure_input="$ac_file. $configure_input"
        { $as_echo "$as_me:${as_lineno-$LINENO}: creating $ac_file" >&5
$as_echo "$as_me: creating $ac_file" >&6;}
    fi

    # Neutralize special characters interpreted by sed in replacement strings.
    case $configure_input in #(
    *\&* | *\\|* | *\\* )
        ac_sed_conf_input=`$as_echo "$configure_input" |

```

```

        sed 's/[\\\\\\&|]/\\\\\\&/g'`; # (
*) ac_sed_conf_input=$configure_input;;
esac

case $ac_tag in
*:-:* | *:-) cat >"$ac_tmp/stdin" \
    || as_fn_error $? "could not create $ac_file" "$LINENO" 5 ;;
esac

;;
esac

ac_dir=`$as_dirname -- "$ac_file" ||
$as_expr X"$ac_file" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|| \
    X"$ac_file" : 'X\(//\)[^/]' \|| \
    X"$ac_file" : 'X\(//\)$' \|| \
    X"$ac_file" : 'X\(/\)' \|| . 2>/dev/null ||
$as_echo X"$ac_file" |
    sed '/^X\(.*[^/]\)\//\/*[^/][^/]*/*$/{
        s//\1/
        q
    }
/^X\(\\/\)\[^/].*${
    s//\1/
    q
}
/^X\(\\/\)\$/{
    s//\1/
    q
}
/^X\(\\/\).*${
    s//\1/
    q
}
s/.*\/./; q'`
ac_dir="$ac_dir"; as_fn_mkdir_p
ac_builddir=.

case "$ac_dir" in
.) ac_dir_suffix= ac_top_builddir_sub=. ac_top_build_prefix= ;;
*)
    ac_dir_suffix=`$as_echo "$ac_dir" | sed 's|^\.\\|/||'`
    # A ".." for each directory in $ac_dir_suffix.

```



```

ac_top_buildddir_sub=`$as_echo "$ac_dir_suffix" | sed 's|/[^\\/]*/|/..|g;s|/||'`
case $ac_top_buildddir_sub in
  "") ac_top_buildddir_sub=. ac_top_build_prefix= ;;
  *) ac_top_build_prefix=$ac_top_buildddir_sub/ ;;
  esac ;;
esac

ac_abs_top_buildddir=$ac_pwd
ac_abs_buildddir=$ac_pwd$ac_dir_suffix
# for backward compatibility:
ac_top_buildddir=$ac_top_build_prefix

case $srcdir in
  .) # We are building in place.
    ac_srcdir=.
    ac_top_srcdir=$ac_top_buildddir_sub
    ac_abs_top_srcdir=$ac_pwd ;;
  [\\/] * | ?:[\\/] * ) # Absolute name.
    ac_srcdir=$srcdir$ac_dir_suffix;
    ac_top_srcdir=$srcdir
    ac_abs_top_srcdir=$srcdir ;;
  *) # Relative name.
    ac_srcdir=$ac_top_build_prefix$srcdir$ac_dir_suffix
    ac_top_srcdir=$ac_top_build_prefix$srcdir
    ac_abs_top_srcdir=$ac_pwd/$srcdir ;;
esac
ac_abs_srcdir=$ac_abs_top_srcdir$ac_dir_suffix


case $ac_mode in
:F)
#
# CONFIG_FILE
#

_ACEOF

cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
# If the template does not know about datarootdir, expand it.
# FIXME: This hack should be removed a few years after 2.60.
ac_datarootdir_hack=; ac_datarootdir_seen=
ac_sed_dataroot='
/datarootdir/ {

```

```

    p
    q
}
/@datadir@/p
/@docdir@/p
/@infodir@/p
/@localedir@/p
/@mandir@/p'
case `eval "sed -n \"\$ac_sed_dataroot\" \$ac_file_inputs"` in
*datarootdir*) ac_datarootdir_seen=yes;;
*@datadir@*|*@docdir@*|*@infodir@*|*@localedir@*|*@mandir@*)
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $ac_file_inputs seems to
ignore the --datarootdir setting" >&5
$as_echo "$as_me: WARNING: $ac_file_inputs seems to ignore the --datarootdir
setting" >&2;}
_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
    ac_datarootdir_hack='
    s&@datadir@&$datadir&g
    s&@docdir@&$docdir&g
    s&@infodir@&$infodir&g
    s&@localedir@&$localedir&g
    s&@mandir@&$mandir&g
    s&\\\${datarootdir}&$datarootdir&g' ;;
esac
_ACEOF

# Neutralize VPATH when `srcdir' = `.'.
# Shell code in configure.ac might set extrasub.
# FIXME: do we really want to maintain this feature?
cat >>$CONFIG_STATUS <<_ACEOF || ac_write_fail=1
ac_sed_extra="$ac_vpsub
$extrasub
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF || ac_write_fail=1
:t
/[@[a-zA-Z_][a-zA-Z_0-9]*@/!b
s|@configure_input@|@ac_sed_conf_input@|;t t
s&@top_builddir@&$ac_top_builddir_sub&;t t
s&@top_build_prefix@&$ac_top_build_prefix&;t t
s&@srcdir@&$ac_srcdir&;t t
s&@abs_srcdir@&$ac_abs_srcdir&;t t

```

```

s@top_srcdir@&$ac_top_srcdir&;t t
s@abs_top_srcdir@&$ac_abs_top_srcdir&;t t
s@builddir@&$ac_builddir&;t t
s@abs_builddir@&$ac_abs_builddir&;t t
s@abs_top_builddir@&$ac_abs_top_builddir&;t t
$ac_datarootdir_hack
"
eval sed "\"$ac_sed_extra\" \"$ac_file_inputs\" | $AWK -f \"$ac_tmp/subs.awk\" \
>$ac_tmp/out || as_fn_error $? "could not create $ac_file" "$LINENO" 5

test -z "$ac_datarootdir_hack$ac_datarootdir_seen" &&
{ ac_out=`sed -n '/\${datarootdir}/p' "$ac_tmp/out"`; test -n "$ac_out"; } &&
{ ac_out=`sed -n '/^[ ]*datarootdir[ ]*:/p' \
"$ac_tmp/out"`; test -z "$ac_out"; } &&
{ $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: $ac_file contains a reference
to the variable `datarootdir'
which seems to be undefined. Please make sure it is defined" >&5
$as_echo "$as_me: WARNING: $ac_file contains a reference to the variable
`datarootdir'
which seems to be undefined. Please make sure it is defined" >&2;}

rm -f "$ac_tmp/stdin"
case $ac_file in
-) cat "$ac_tmp/out" && rm -f "$ac_tmp/out";;
*) rm -f "$ac_file" && mv "$ac_tmp/out" "$ac_file";;
esac \
|| as_fn_error $? "could not create $ac_file" "$LINENO" 5
;;
:H)
#
# CONFIG_HEADER
#
if test x"$ac_file" != x-; then
{
$as_echo "/* $configure_input */" \
&& eval 'AWK -f "$ac_tmp/defines.awk"' "$ac_file_inputs"
} >"$ac_tmp/config.h" \
|| as_fn_error $? "could not create $ac_file" "$LINENO" 5
if diff "$ac_file" "$ac_tmp/config.h" >/dev/null 2>&1; then
{ $as_echo "$as_me:${as_lineno-$LINENO}: $ac_file is unchanged" >&5
$as_echo "$as_me: $ac_file is unchanged" >&6;}
else

```

```

        rm -f "$ac_file"
        mv "$ac_tmp/config.h" "$ac_file" \
        || as_fn_error $? "could not create $ac_file" "$LINENO" 5
    fi
else
    $as_echo "/* $configure_input */" \
    && eval '$AWK -f "$ac_tmp/defines.awk"' "$ac_file_inputs" \
    || as_fn_error $? "could not create -" "$LINENO" 5
fi
;;

esac

done # for ac_tag

as_fn_exit 0
_ACEOF
ac_clean_files=$ac_clean_files_save

test $ac_write_fail = 0 ||
    as_fn_error $? "write failure creating $CONFIG_STATUS" "$LINENO" 5

# configure is writing to config.log, and then calls config.status.
# config.status does its own redirection, appending to config.log.
# Unfortunately, on DOS this fails, as config.log is still kept open
# by configure, so config.status won't be able to write to it; its
# output is simply discarded.  So we exec the FD to /dev/null,
# effectively closing config.log, so it can be properly (re)opened and
# appended to by config.status.  When coming back to configure, we
# need to make the FD available again.
if test "$no_create" != yes; then
    ac_cs_success=:
    ac_config_status_args=
    test "$silent" = yes &&
        ac_config_status_args="$ac_config_status_args --quiet"
    exec 5>/dev/null
    $SHELL $CONFIG_STATUS $ac_config_status_args || ac_cs_success=false
    exec 5>>config.log
    # Use ||, not &&, to avoid exiting from the if with $? = 1, which
    # would make configure fail if this is the last instruction.

```

```

    $ac_cs_success || as_fn_exit 1
fi
if test -n "$ac_unrecognized_opts" && test "$enable_option_checking" != no; then
    { $as_echo "$as_me:${as_lineno-$LINENO}: WARNING: unrecognized options:
$ac_unrecognized_opts" >&5
$as_echo "$as_me: WARNING: unrecognized options: $ac_unrecognized_opts" >&2;}
fi

```

5 Тестовые примеры работы программы

```

stud@brain:/mnt/lab5$ ./server.o 1234
Server is running.
Server is listening.
█

stud@brain:/mnt/lab5$ ./client.o 127.0.0.1 1234
Input first fraction:
█

```

Рисунок 1 – Запуск клиента и сервера с аргументами командной строки

```

Input first fraction:
1/3
Input operation:
+
Input second fraction:
23/45

1/3 + 23/45 = 38/45

Input first fraction:
█

```

Рисунок 2 – Сложение обыкновенных дробей

```

The socket has been connected to the server.
The information from socket has been received. Content: 1/3
The information from socket has been received. Content: +
The information from socket has been received. Content: 23/45

```

Рисунок 3 – Серверный вывод информации о полученном сокете

```
Input first fraction:
-23/4
Input operation:
+
Input second fraction:
43/19

-23/4 + 43/19 = -265/76

Input first fraction:
█
```

Рисунок 4 – Ввод и обработка отрицательных значений

```
Input first fraction:
20/19
Input operation:
*
Input second fraction:
43/76

20/19 * 43/76 = 215/361

Input first fraction:
█
```

Рисунок 5 – Умножение обыкновенных дробей

```
Input first fraction:
1/3
Input operation:
+
Input second fraction:
1/6

1/3 + 1/6 = 1/2

Input first fraction:
█
```

Рисунок 6 – Удаление группы из файла

```
Input first fraction:
12.3
Input operation:
*
Input second fraction:
3.2

12.3 * 3.2 = 39.360

Input first fraction:
█
```

Рисунок 7 – Умножение десятичных дробей

```
Input first fraction:
12.3
Input operation:
+
Input second fraction:
43.65

12.3 + 43.65 = 55.95

Input first fraction:
█
```

Рисунок 8 – Сложение десятичных дробей

```
Input first fraction:
1/3
Input operation:
+
Input second fraction:
0.5

1/3 + 0.5 = 0.833

Input first fraction:
█
```

Рисунок 9 – Смешанное сложение дробей

```
Input first fraction:
1/3
Input operation:
*
Input second fraction:
0.5

1/3 * 0.5 = 0.166

Input first fraction:
█
```

Рисунок 10 – Смешанное произведение дробей