

NAME

gcobol — GCC COBOL Front-end I/O function API

LIBRARY*libgcobol***SYNOPSIS**

```

#include <symbols.h>
#include <io.h>
#include <gcobolio.h>

gcobol_io_t
gcobol_fileops();

class gcobol_io_t {
public:
    static const char constexpr marquee[64];
    typedef void (open_t)( cblc_file_t *file,
                          char *filename,
                          int mode_char,
                          int is_quoted );
    typedef void (close_t)( cblc_file_t *file,
                          int how );
    typedef void (start_t)( cblc_file_t *file,
                          int relop, // needs enum
                          int first_last_key,
                          size_t length );
    typedef void (read_t)( cblc_file_t *file,
                          int where );
    typedef void (write_t)( cblc_file_t *file,
                          unsigned char *data,
                          size_t length,
                          int after,
                          int lines,
                          int is_random );
    typedef void (rewrite_t)( cblc_file_t *file,
                          size_t length, bool is_random );
    typedef void (delete_t)( cblc_file_t *file,
                          bool is_random );

    open_t      *Open;
    close_t     *Close;
    start_t     *Start;
    read_t      *Read;
    write_t     *Write;
    rewrite_t   *Rewrite;
    delete_t   *Delete;
    ...
};

```

DESCRIPTION

gcobol supplies replaceable I/O functionality via **gcobol_fileops()**. It returns a pointer to a structure of C function pointers that implement sequential, relative, and indexed file operations over files whose On Disk Format (ODF) is defined by **gcobol**. A user wishing to use another library that implements the same functionality over a different ODF must supply a different implementation of **gcobol_fileops()**, plus 7 functions, as described in this document. The pointers to those user-implemented functions are placed in a C++ object of type *gcobol_io_t* and an instantiation of that type is returned by **gcobol_fileops()**. The compiled program initializes I/O operations by calling that function the first

