Université Paris Diderot- Master 2

Programmation embarquée

TP N°1

Langages, techniques et outils

Réalisé par :

-??? ???

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Promotion 2018/2019

1 Développement du générateur de données

Le code de la fonction fibonnacci itérative dévelopée :

```
#include <stdio.h>
#include <stdlib.h>
#include <stdint.h>
#include "header.h"
* Remplis un tableau avec la suite de Fibonnacci.
* @param output_array tableau où la suite est enregistré
* Oparam size nombre de valeur à inscrire dans \a output_array
* Oparam min_value valeur jusqu'à laquelle les nombres ne sont pas enregistrés
void fibonacci(uint32_t output_array[], uint32_t size, uint32_t min_value)
{
        uint32_t precprec=0,prec=1,c=0,i,tmp;
        if(size>0)
        {
        for(i=0;i<size;i++)</pre>
                if(i>1)
                {
                        tmp=precprec+prec;
                        precprec=prec;
                        prec=tmp;
                }
                else
                {
                        tmp=i;
                }
                if(tmp> min_value)
                        output_array[c]=tmp;
                        C++;
                }
        }
}
```

2 Examination des données grâce à GDB

3 Développez le consommateur de données

le script minimal nécessaire à l'affichage des deux tableaux, avant après le calcul des périmètres:

```
set remotetimeout 10000
set logging file logfile.txt
set logging overwrite on
set logging on
set height 0
set print pretty on
set print array on
tar extended-remote localhost:1234 #se connecter au
serveur TSIM
load
mon perf reset
hbreak test
# Définir un breakpoint au niveau de la fonction
test() appelée avant et après
#l'appel de la fonction périmetre.
  commands
silent
print rayons
print perimetres
cont
end
start
cont
```

4 Création des sections

Aprés avoir trouvé le fichier du linker script créé par défaut dans ?? , nous avons créé une copie de celui ci ,que nous avons modifié en ajoutant la section "myarrays" suivant le modèle de la section bss, puis nous avons modifié les options de linkage de Eclipse pour forcer le linker à utiliser notre linker script,comme suit ??:

La partie ajoutée est en rouge.

```
SECTIONS {
.bss :
   = ALIGN(0x8);
bss_start = .;
_bss_start = .;
_{-}bss_start = .;
*(.bss .bss.*)
* (COMMON)
} > ram
.myarrays :
  = ALIGN(0x8);
myarrays_start = .;
_myarrays_start = .;
__.myarrays_start = .;
*(.myarrays .myarrays.*)
* (COMMON)
} > ram
```

Le passage suivant est extrait du fichier map.txt généré par la commande ??.Les informations concernant les variables globales sont en rouge et celles qui concernent les fonctions sont en bleu.

```
...
.text 0x4000000 0x6350
CREATE_OBJECT_SYMBOLS
```

```
*(.text .text.*)
.text 0x40000000 0x1000
.data 0x40006350 0xac8
*(.data .data.*)
.data 0x40006350 0x8
*(.bss .bss.*)
.bss 0x40006e20 0x1c
.myarrays 0x40007618 0x320
0x40007618 . = ALIGN (0x8)
0x40007618 myarrays_start = .
0x40007618 \text{ \_myarrays\_start} = .
0x40007618 __.myarrays_start = .
*(.myarrays .myarrays.*)
.myarrays 0x40007618 0x320 src
TP1_5.0
0x40007618 rayons
0x400077a8 perimetres
*(COMMON) 0x40007938 . = ALIGN (0x8)
0x40007938 \text{ end} = .
0x40007938 \text{ \_end} = .
0x40007938 __end = .
0x40007938 ___end = .
0x40007938 _heap1 = .
  .jcr 0x40007938 0x4
*(.jcr) .jcr 0x40007938 0x4
.rela.dyn
   .stab 0x00000000 0xeac
*(.stab) .stab 0x00000000 0x15c src
test.o
.stab 0x0000015c 0x7bc src
perimetre.o
0x7c8 (size before relaxing)
.stab 0x00000918 0x2f4 src
fibonacci.o
0x858 (size before relaxing)
```

```
.stab 0x00000c0c 0x2a0 src
TP1_5.o
0x804 (size before relaxing)
...
```

Concernant la fonction calculant le périmètre, nous avons appris que ?? Nous avons appris concernant le tableau de float que :??

5 Génération du fichier SREC

Voici l'image SREC de notre exécutable généré par la commande: sparc-elf-objcopy.exe -O srec TP1_1 TP1_5.srec executée dans le répértoire C:\opt\sparc-elf-4.4.2-mingw\bin:

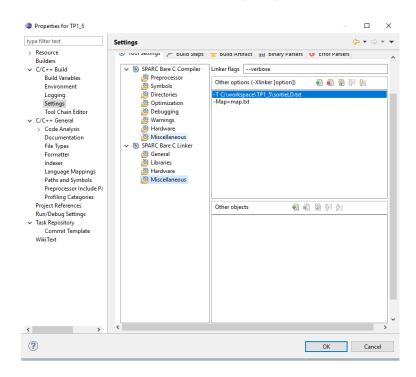


Figure 1: Modification des options de linkage par défaut du projet sur Eclipse

S00C000054505F352E73726563E0 S3154000000881000000910001781C122A80100000D5

S31540000010A1480000A75000001080179EAC10200198 S3154000002091D020000100000010000000100000006 S3154000003091D02000010000000100000001000000F6 S31540000040A14800002910001781C521E401000000E5 S31540000050A14800002910001481C522E401000000D7 S31540000060A14800002910001481C52350010000005A S3154000007091D02000010000000100000001000000B6 S3154000008091D0200001000000100000001000000A6 S31540000090A1480000A75000001080177EAC10200930 S315400000A091D020000100000010000000100000086 S315400000B091D020000100000001000000010000076 S315400000C091D0200001000000100000010000066 S31540000D091D0200001000000100000010000056 S315400000E091D020000100000010000000100000046 S315400000F091D02000010000001000000010000036 S3154000010091D020000100000010000000100000025 S31540000110AE102001A14800001080153AA7500000FB S31540000120AE102002A148000010801536A7500000EE S31540000130AE102003A148000010801532A7500000E1 S31540000140AE102004A14800001080152EA7500000D4 S31540000150AE102005A14800001080152AA7500000C7 S31540000160AE102006A148000010801526A7500000BA S31540000170AE102007A148000010801522A7500000AD S31540000180AE102008A14800001080151EA7500000A0 S31540000190AE102009A14800001080151AA750000093 S315400001A0AE10200AA148000010801516A750000086 S315400001B0AE10200BA148000010801512A750000079 S315400001C0AE10200CA14800001080150EA75000006C S315400001D0AE10200DA14800001080150AA75000005F S315400001E0AE10200EA148000010801506A750000052 S315400001F0AE10200FA148000010801502A750000045 S3154000020091D020000100000010000000100000024 S3154000021091D020000100000010000000100000014 S3154000022091D0200001000000010000000100000004 S3154000023091D02000010000000100000001000000F4 S3154000024091D0200001000000100000001000000E4 S3154000025091D02000010000000100000001000000D4 S3154000026091D0200001000000010000001000000C4 S3154000027091D02000010000000100000001000000B4

```
S3154000028091D02000010000000100000001000000A4
S3154000029091D020000100000010000000100000094
S315400002A091D0200001000000010000000100000084
S315400002B091D020000100000001000000010000074
S315400002C091D0200001000000100000010000064
S315400002D091D0200001000000100000010000054
S315400002E091D020000100000010000000100000044
S315400002F091D020000100000010000000100000034
S3154000030091D020000100000010000000100000023
S3154000031091D0200001000000010000000100000013
S3154000032091D0200001000000010000000100000003
S3154000033091D0200001000000100000001000000F3
S3154000034091D02000010000000100000001000000E3
S3154000035091D02000010000000100000001000000D3
S3154000036091D02000010000000100000001000000C3
S3154000037091D0200001000000010000001000000B3
S3154000038091D02000010000000100000001000000A3
S3154000039091D020000100000010000000100000093
S315400003A091D0200001000000010000000100000083
S315400003B091D020000100000001000000010000073
S315400003C091D0200001000000010000000100000063
S315400003D091D020000100000001000000010000053
S315400003E091D0200001000000010000000100000043
S315400003F091D0200001000000100000010000033
S3154000040091D0200001000000010000000100000022
S3154000041091D0200001000000010000000100000012
S3154000042091D0200001000000010000000100000002
S3154000043091D02000010000000100000001000000F2
S3154000044091D02000010000000100000001000000E2
S3154000045091D02000010000000100000001000000D2
S3154000046091D020000100000010000000100000002
S3154000047091D0200001000000100000001000000B2
S3154000048091D0200001000000100000001000000A2
S3154000049091D0200001000000010000000100000092
S315400004A091D0200001000000010000000100000082
S315400004B091D020000100000010000000100000072
S315400004C091D020000100000010000000100000062
S315400004D091D02000010000000100000010000052
S315400004E091D020000100000001000000010000042
```

```
S315400004F091D020000100000010000000100000032
S3154000050091D020000100000010000000100000021
S3154000051091D020000100000001000000011
S3154000052091D0200001000000010000000100000001
S3154000053091D0200001000000100000001000000F1
S3154000054091D0200001000000100000001000000E1
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S3154000067091D02000010000000100000001000000B0
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S315400006A091D0200001000000010000000100000080
S315400006B091D020000100000001000000010000070
S315400006C091D020000100000010000000100000060
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S315400006E091D02000010000001000000100000040
S315400006F091D020000100000010000000100000030
S3154000070091D02000010000000100000001F
S3154000071091D020000100000001000000010000000F
S3154000072091D0200001000000100000001000000FF
S3154000073091D02000010000000100000001000000EF
S3154000074091D0200001000000010000000100000DF
S3154000075091D02000010000000100000001000000CF
```

```
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S3154000077091D0200001000000100000001000000AF
S3154000078091D020000100000001000000010000009F
S3154000079091D020000100000001000000010000008F
S315400007A091D0200001000000100000001000007F
S315400007B091D02000010000001000000010000006F
S315400007C091D0200001000000010000001000005F
S315400007D091D02000010000001000000010000004F
S315400007E091D0200001000000100000001000003F
S315400007F091D02000010000001000000010000002F
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S315400009A091D02000010000000100000001000007D
S315400009B091D02000010000001000000010000006D
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```

```
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S31540000A3091D02000010000000100000001000000EC
S31540000A4091D0200001000000100000001000000DC
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```

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```
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S315400010F081E800009DE3BF9881C7E00881E80000D1
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6 Optimisation et débogage