

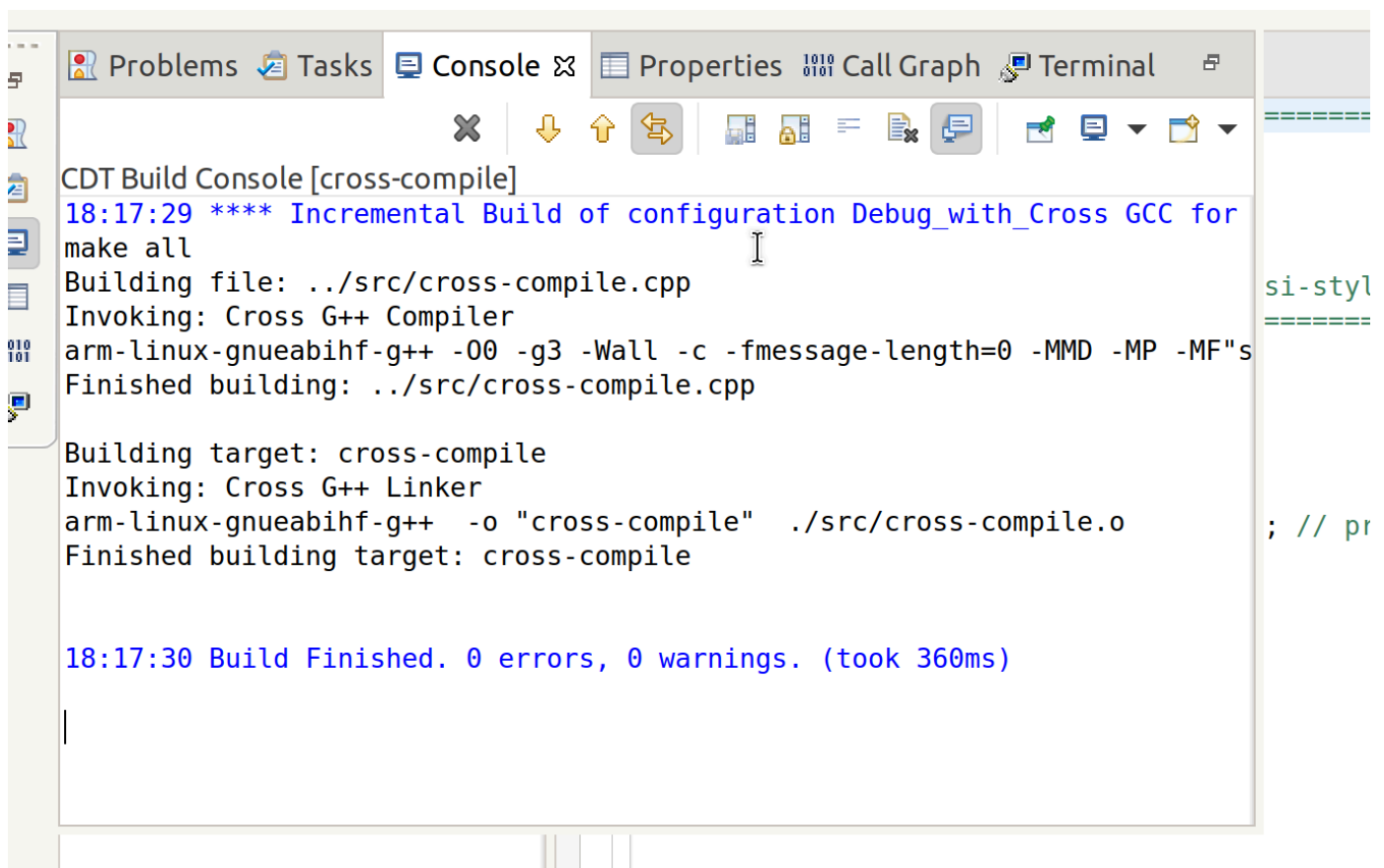
Aufgabe 07

Tim Zolleis

1. Dateitypen des Cross-Compile

```
tim@host068:~/eclipse-workspace/cross-compile$ file Debug_with_Cross\ GCC/cross-compile
Debug_with_Cross GCC/cross-compile: ELF 32-bit LSB shared object, ARM, EABI5 version 1 (SYSV), dynamically linked, interpreter
/lib/ld-linux-armhf.so.3, BuildID[sha1]=8759d43c73ae605ed6547b6877bcfeaddf12734c, for GNU/Linux 3.2.0, with debug_info, not s
tripped
tim@host068:~/eclipse-workspace/cross-compile$
```

2. Ausgabe des Cross-Compile



```
CDT Build Console [cross-compile]
18:17:29 **** Incremental Build of configuration Debug_with_Cross GCC for
make all
Building file: ../src/cross-compile.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabi-g++ -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP -MF"s
Finished building: ../src/cross-compile.cpp

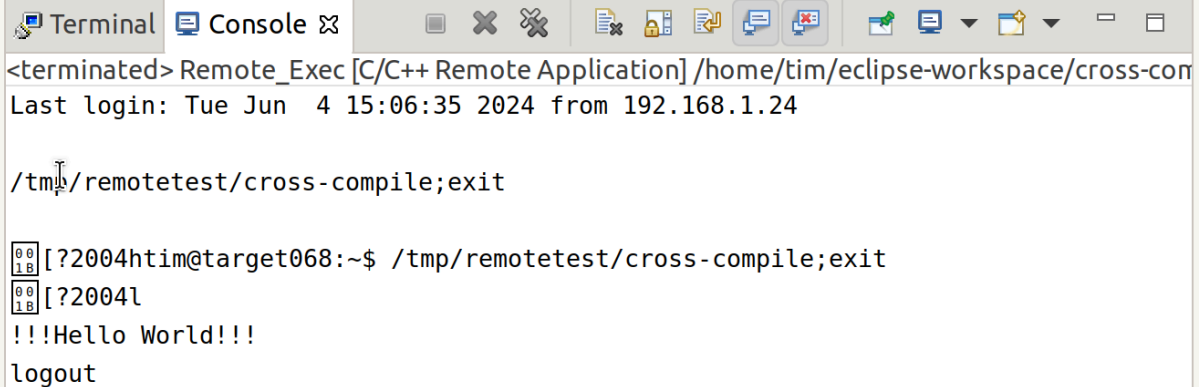
Building target: cross-compile
Invoking: Cross G++ Linker
arm-linux-gnueabi-g++ -o "cross-compile" ../src/cross-compile.o
Finished building target: cross-compile

18:17:30 Build Finished. 0 errors, 0 warnings. (took 360ms)
```

3. Manuelles ausführen des Cross-Compiles

```
tim@target068:~$ ls
Bookshelf cross-compile Desktop Documents Downloads Music Pictures Public Templates Videos
tim@target068:~$ ./cross-compile
!!!Hello World!!!
tim@target068:~$
```

4. Ausgabe des Remote-Executes



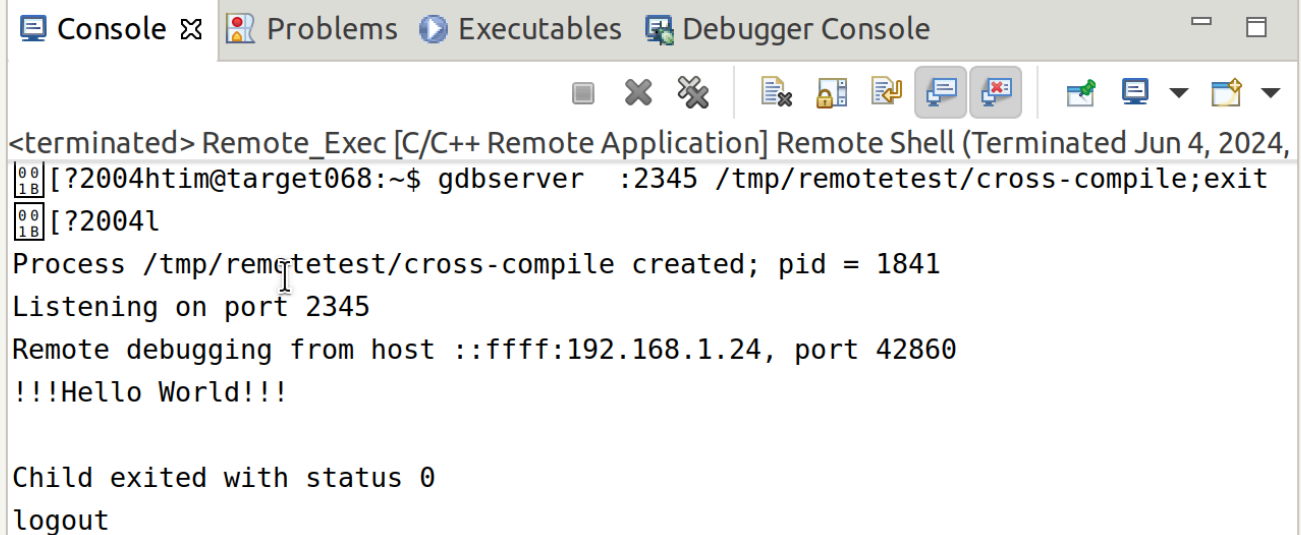
The screenshot shows the Eclipse IDE's Terminal window. The title bar indicates the session is a "Remote_Exec [C/C++ Remote Application]". The terminal output shows a successful login from 192.168.1.24 on June 4, 2024, at 15:06:35. The user runs the command `/tmp/remotetest/cross-compile;exit`. The output of this command is `!!!Hello World!!!`, followed by a `logout` message.

```
<terminated> Remote_Exec [C/C++ Remote Application] /home/tim/eclipse-workspace/cross-con
Last login: Tue Jun  4 15:06:35 2024 from 192.168.1.24

/tmp/remotetest/cross-compile;exit

[?2004htim@target068:~$ /tmp/remotetest/cross-compile;exit
[?2004l
!!!Hello World!!!
logout
```

5. Ausgabe des Remote-Debuggings



The screenshot shows the Eclipse IDE's Console window. The title bar includes tabs for "Console", "Problems", "Executables", and "Debugger Console". The output shows the termination of a "Remote Shell" on June 4, 2024. The user runs `gdbserver :2345 /tmp/remotetest/cross-compile;exit`. The output indicates that the process `/tmp/remotetest/cross-compile` was created with PID 1841, is listening on port 2345, and is being debugged from host `::ffff:192.168.1.24` on port 42860. The output of the debugged process is `!!!Hello World!!!`, followed by `Child exited with status 0` and `logout`.

```
<terminated> Remote_Exec [C/C++ Remote Application] Remote Shell (Terminated Jun 4, 2024,
[?2004htim@target068:~$ gdbserver :2345 /tmp/remotetest/cross-compile;exit
[?2004l
Process /tmp/remotetest/cross-compile created; pid = 1841
Listening on port 2345
Remote debugging from host ::ffff:192.168.1.24, port 42860
!!!Hello World!!!

Child exited with status 0
logout
```

6. Breakpoint-Konfiguration und Ausgabe

cross-compile.c

test.cpp

makefile

(gdb[1].proc[20]

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//=====

// Name : cross-compile.cpp

// Author :

// Version :

// Copyright : Your copyright notice

// Description : Hello World in C++, Ansi-style

//=====

#include <iostream>

using namespace std;

int main() {

int i = 50;

cout << "!!!Hello World!!!" << endl; // prints !!!Hello World!!!

return 0;

}

Variables

Breakpoints

Expressions

Modules

Name	Type	Value
i	int	50

nde