

dans le cas d'un composant i2c 5V d'utiliser des convertisseurs de niveau ou, plus simplement une version 1,8 - 3,3 V dudit composant si elle existe.

3 En parlant d'espace utilisateur

En ayant appliqué toutes ces modifications dans le code et en ayant pris soin de configurer le noyau en activant le support i2c et i2c-dev, il nous suffit de recompilier l'ensemble. Profitons-en pour sensiblement modifier une partie du reste du système. Je pense en particulier aux entrées dans **/dev**. Nous devons, en effet, disposer des pseudo-fichiers correspondants aux bus i2c pour pouvoir les utiliser depuis l'espace utilisateur. L'outil utilisé pour générer l'image du rootfs offre une facilité dans ce sens. Il nous suffit de créer des fichiers vides dans notre **/rootfs/dev** ainsi :

```
% touch rootfs/dev/i2c-0,c,89,0
% touch rootfs/dev/i2c-1,c,89,1
% touch rootfs/dev/i2c-2,c,89,2
```

La syntaxe utilisée est simple : « @nom,type,majeur,mineur », exactement comme on le ferait avec **mknod**. Enfin, pour que nous puissions tester simplement le bon fonctionnement de l'ensemble, nous allons récupérer les sources des i2c-tools du projet lm-sensors sur <http://www.lm-sensors.org/wiki/I2CTools>. La cross-compilation nécessite simplement de spécifier la racine du compilateur en modifiant le **Makefile** :

```
CROSS_COMPILE ?= arm-uclinuxabi-
AS      = $(CROSS_COMPILE)as
CC      = $(CROSS_COMPILE)gcc
LD      = $(CC) -nostdlib
CPP     = $(CC) -E
AR      = $(CROSS_COMPILE)ar
NM      = $(CROSS_COMPILE)nm
STRIP   = $(CROSS_COMPILE)strip
OBJCOPY = $(CROSS_COMPILE)objcopy
OBJDUMP = $(CROSS_COMPILE)objdump
```

Après compilation, d'un simple **make**, nous trouverons l'outil qui nous intéresse dans le sous-répertoire **tools** : **i2cdetect**. Nous copierons ce binaire dans **rootfs/usr/bin/** (là où se trouve déjà **fbstest**) et reconstruirons l'ensemble du système avant de l'inscrire dans la flash du dev-kit avec OpenOCD.

Et voici le résultat :

```
[...]
i2c /dev entries driver
i2c-0 i2c-1 i2c-2 i2c-3 i2c-4 i2c-5 i2c-6 i2c-7 i2c-8 i2c-9 i2c-10 i2c-11 i2c-12 i2c-13 i2c-14 i2c-15 i2c-16 i2c-17 i2c-18 i2c-19 i2c-20 i2c-21 i2c-22 i2c-23 i2c-24 i2c-25 i2c-26 i2c-27 i2c-28 i2c-29 i2c-30 i2c-31 i2c-32 i2c-33 i2c-34 i2c-35 i2c-36 i2c-37 i2c-38 i2c-39 i2c-40 i2c-41 i2c-42 i2c-43 i2c-44 i2c-45 i2c-46 i2c-47 i2c-48 i2c-49 i2c-50 i2c-51 i2c-52 i2c-53 i2c-54 i2c-55 i2c-56 i2c-57 i2c-58 i2c-59 i2c-60 i2c-61 i2c-62 i2c-63 i2c-64 i2c-65 i2c-66 i2c-67 i2c-68 i2c-69 i2c-70 i2c-71 i2c-72 i2c-73 i2c-74 i2c-75 i2c-76 i2c-77 i2c-78 i2c-79 i2c-80 i2c-81 i2c-82 i2c-83 i2c-84 i2c-85 i2c-86 i2c-87 i2c-88 i2c-89 i2c-90 i2c-91 i2c-92 i2c-93 i2c-94 i2c-95 i2c-96 i2c-97 i2c-98 i2c-99 i2c-100 i2c-101 i2c-102 i2c-103 i2c-104 i2c-105 i2c-106 i2c-107 i2c-108 i2c-109 i2c-110 i2c-111 i2c-112 i2c-113 i2c-114 i2c-115 i2c-116 i2c-117 i2c-118 i2c-119 i2c-120 i2c-121 i2c-122 i2c-123 i2c-124 i2c-125 i2c-126 i2c-127 i2c-128 i2c-129 i2c-130 i2c-131 i2c-132 i2c-133 i2c-134 i2c-135 i2c-136 i2c-137 i2c-138 i2c-139 i2c-140 i2c-141 i2c-142 i2c-143 i2c-144 i2c-145 i2c-146 i2c-147 i2c-148 i2c-149 i2c-150 i2c-151 i2c-152 i2c-153 i2c-154 i2c-155 i2c-156 i2c-157 i2c-158 i2c-159 i2c-160 i2c-161 i2c-162 i2c-163 i2c-164 i2c-165 i2c-166 i2c-167 i2c-168 i2c-169 i2c-170 i2c-171 i2c-172 i2c-173 i2c-174 i2c-175 i2c-176 i2c-177 i2c-178 i2c-179 i2c-180 i2c-181 i2c-182 i2c-183 i2c-184 i2c-185 i2c-186 i2c-187 i2c-188 i2c-189 i2c-190 i2c-191 i2c-192 i2c-193 i2c-194 i2c-195 i2c-196 i2c-197 i2c-198 i2c-199 i2c-200 i2c-201 i2c-202 i2c-203 i2c-204 i2c-205 i2c-206 i2c-207 i2c-208 i2c-209 i2c-210 i2c-211 i2c-212 i2c-213 i2c-214 i2c-215 i2c-216 i2c-217 i2c-218 i2c-219 i2c-220 i2c-221 i2c-222 i2c-223 i2c-224 i2c-225 i2c-226 i2c-227 i2c-228 i2c-229 i2c-230 i2c-231 i2c-232 i2c-233 i2c-234 i2c-235 i2c-236 i2c-237 i2c-238 i2c-239 i2c-240 i2c-241 i2c-242 i2c-243 i2c-244 i2c-245 i2c-246 i2c-247 i2c-248 i2c-249 i2c-250 i2c-251 i2c-252 i2c-253 i2c-254 i2c-255 i2c-256 i2c-257 i2c-258 i2c-259 i2c-260 i2c-261 i2c-262 i2c-263 i2c-264 i2c-265 i2c-266 i2c-267 i2c-268 i2c-269 i2c-270 i2c-271 i2c-272 i2c-273 i2c-274 i2c-275 i2c-276 i2c-277 i2c-278 i2c-279 i2c-280 i2c-281 i2c-282 i2c-283 i2c-284 i2c-285 i2c-286 i2c-287 i2c-288 i2c-289 i2c-290 i2c-291 i2c-292 i2c-293 i2c-294 i2c-295 i2c-296 i2c-297 i2c-298 i2c-299 i2c-300 i2c-301 i2c-302 i2c-303 i2c-304 i2c-305 i2c-306 i2c-307 i2c-308 i2c-309 i2c-310 i2c-311 i2c-312 i2c-313 i2c-314 i2c-315 i2c-316 i2c-317 i2c-318 i2c-319 i2c-320 i2c-321 i2c-322 i2c-323 i2c-324 i2c-325 i2c-326 i2c-327 i2c-328 i2c-329 i2c-330 i2c-331 i2c-332 i2c-333 i2c-334 i2c-335 i2c-336 i2c-337 i2c-338 i2c-339 i2c-340 i2c-341 i2c-342 i2c-343 i2c-344 i2c-345 i2c-346 i2c-347 i2c-348 i2c-349 i2c-350 i2c-351 i2c-352 i2c-353 i2c-354 i2c-355 i2c-356 i2c-357 i2c-358 i2c-359 i2c-360 i2c-361 i2c-362 i2c-363 i2c-364 i2c-365 i2c-366 i2c-367 i2c-368 i2c-369 i2c-370 i2c-371 i2c-372 i2c-373 i2c-374 i2c-375 i2c-376 i2c-377 i2c-378 i2c-379 i2c-380 i2c-381 i2c-382 i2c-383 i2c-384 i2c-385 i2c-386 i2c-387 i2c-388 i2c-389 i2c-390 i2c-391 i2c-392 i2c-393 i2c-394 i2c-395 i2c-396 i2c-397 i2c-398 i2c-399 i2c-400 i2c-401 i2c-402 i2c-403 i2c-404 i2c-405 i2c-406 i2c-407 i2c-408 i2c-409 i2c-410 i2c-411 i2c-412 i2c-413 i2c-414 i2c-415 i2c-416 i2c-417 i2c-418 i2c-419 i2c-420 i2c-421 i2c-422 i2c-423 i2c-424 i2c-425 i2c-426 i2c-427 i2c-428 i2c-429 i2c-430 i2c-431 i2c-432 i2c-433 i2c-434 i2c-435 i2c-436 i2c-437 i2c-438 i2c-439 i2c-440 i2c-441 i2c-442 i2c-443 i2c-444 i2c-445 i2c-446 i2c-447 i2c-448 i2c-449 i2c-450 i2c-451 i2c-452 i2c-453 i2c-454 i2c-455 i2c-456 i2c-457 i2c-458 i2c-459 i2c-460 i2c-461 i2c-462 i2c-463 i2c-464 i2c-465 i2c-466 i2c-467 i2c-468 i2c-469 i2c-470 i2c-471 i2c-472 i2c-473 i2c-474 i2c-475 i2c-476 i2c-477 i2c-478 i2c-479 i2c-480 i2c-481 i2c-482 i2c-483 i2c-484 i2c-485 i2c-486 i2c-487 i2c-488 i2c-489 i2c-490 i2c-491 i2c-492 i2c-493 i2c-494 i2c-495 i2c-496 i2c-497 i2c-498 i2c-499 i2c-500 i2c-501 i2c-502 i2c-503 i2c-504 i2c-505 i2c-506 i2c-507 i2c-508 i2c-509 i2c-510 i2c-511 i2c-512 i2c-513 i2c-514 i2c-515 i2c-516 i2c-517 i2c-518 i2c-519 i2c-520 i2c-521 i2c-522 i2c-523 i2c-524 i2c-525 i2c-526 i2c-527 i2c-528 i2c-529 i2c-530 i2c-531 i2c-532 i2c-533 i2c-534 i2c-535 i2c-536 i2c-537 i2c-538 i2c-539 i2c-540 i2c-541 i2c-542 i2c-543 i2c-544 i2c-545 i2c-546 i2c-547 i2c-548 i2c-549 i2c-550 i2c-551 i2c-552 i2c-553 i2c-554 i2c-555 i2c-556 i2c-557 i2c-558 i2c-559 i2c-560 i2c-561 i2c-562 i2c-563 i2c-564 i2c-565 i2c-566 i2c-567 i2c-568 i2c-569 i2c-570 i2c-571 i2c-572 i2c-573 i2c-574 i2c-575 i2c-576 i2c-577 i2c-578 i2c-579 i2c-580 i2c-581 i2c-582 i2c-583 i2c-584 i2c-585 i2c-586 i2c-587 i2c-588 i2c-589 i2c-590 i2c-591 i2c-592 i2c-593 i2c-594 i2c-595 i2c-596 i2c-597 i2c-598 i2c-599 i2c-600 i2c-601 i2c-602 i2c-603 i2c-604 i2c-605 i2c-606 i2c-607 i2c-608 i2c-609 i2c-610 i2c-611 i2c-612 i2c-613 i2c-614 i2c-615 i2c-616 i2c-617 i2c-618 i2c-619 i2c-620 i2c-621 i2c-622 i2c-623 i2c-624 i2c-625 i2c-626 i2c-627 i2c-628 i2c-629 i2c-630 i2c-631 i2c-632 i2c-633 i2c-634 i2c-635 i2c-636 i2c-637 i2c-638 i2c-639 i2c-640 i2c-641 i2c-642 i2c-643 i2c-644 i2c-645 i2c-646 i2c-647 i2c-648 i2c-649 i2c-650 i2c-651 i2c-652 i2c-653 i2c-654 i2c-655 i2c-656 i2c-657 i2c-658 i2c-659 i2c-660 i2c-661 i2c-662 i2c-663 i2c-664 i2c-665 i2c-666 i2c-667 i2c-668 i2c-669 i2c-670 i2c-671 i2c-672 i2c-673 i2c-674 i2c-675 i2c-676 i2c-677 i2c-678 i2c-679 i2c-680 i2c-681 i2c-682 i2c-683 i2c-684 i2c-685 i2c-686 i2c-687 i2c-688 i2c-689 i2c-690 i2c-691 i2c-692 i2c-693 i2c-694 i2c-695 i2c-696 i2c-697 i2c-698 i2c-699 i2c-700 i2c-701 i2c-702 i2c-703 i2c-704 i2c-705 i2c-706 i2c-707 i2c-708 i2c-709 i2c-710 i2c-711 i2c-712 i2c-713 i2c-714 i2c-715 i2c-716 i2c-717 i2c-718 i2c-719 i2c-720 i2c-721 i2c-722 i2c-723 i2c-724 i2c-725 i2c-726 i2c-727 i2c-728 i2c-729 i2c-730 i2c-731 i2c-732 i2c-733 i2c-734 i2c-735 i2c-736 i2c-737 i2c-738 i2c-739 i2c-740 i2c-741 i2c-742 i2c-743 i2c-744 i2c-745 i2c-746 i2c-747 i2c-748 i2c-749 i2c-750 i2c-751 i2c-752 i2c-753 i2c-754 i2c-755 i2c-756 i2c-757 i2c-758 i2c-759 i2c-760 i2c-761 i2c-762 i2c-763 i2c-764 i2c-765 i2c-766 i2c-767 i2c-768 i2c-769 i2c-770 i2c-771 i2c-772 i2c-773 i2c-774 i2c-775 i2c-776 i2c-777 i2c-778 i2c-779 i2c-780 i2c-781 i2c-782 i2c-783 i2c-784 i2c-785 i2c-786 i2c-787 i2c-788 i2c-789 i2c-790 i2c-791 i2c-792 i2c-793 i2c-794 i2c-795 i2c-796 i2c-797 i2c-798 i2c-799 i2c-800 i2c-801 i2c-802 i2c-803 i2c-804 i2c-805 i2c-806 i2c-807 i2c-808 i2c-809 i2c-810 i2c-811 i2c-812 i2c-813 i2c-814 i2c-815 i2c-816 i2c-817 i2c-818 i2c-819 i2c-820 i2c-821 i2c-822 i2c-823 i2c-824 i2c-825 i2c-826 i2c-827 i2c-828 i2c-829 i2c-830 i2c-831 i2c-832 i2c-833 i2c-834 i2c-835 i2c-836 i2c-837 i2c-838 i2c-839 i2c-840 i2c-841 i2c-842 i2c-843 i2c-844 i2c-845 i2c-846 i2c-847 i2c-848 i2c-849 i2c-850 i2c-851 i2c-852 i2c-853 i2c-854 i2c-855 i2c-856 i2c-857 i2c-858 i2c-859 i2c-860 i2c-861 i2c-862 i2c-863 i2c-864 i2c-865 i2c-866 i2c-867 i2c-868 i2c-869 i2c-870 i2c-871 i2c-872 i2c-873 i2c-874 i2c-875 i2c-876 i2c-877 i2c-878 i2c-879 i2c-880 i2c-881 i2c-882 i2c-883 i2c-884 i2c-885 i2c-886 i2c-887 i2c-888 i2c-889 i2c-890 i2c-891 i2c-892 i2c-893 i2c-894 i2c-895 i2c-896 i2c-897 i2c-898 i2c-899 i2c-900 i2c-901 i2c-902 i2c-903 i2c-904 i2c-905 i2c-906 i2c-907 i2c-908 i2c-909 i2c-910 i2c-911 i2c-912 i2c-913 i2c-914 i2c-915 i2c-916 i2c-917 i2c-918 i2c-919 i2c-920 i2c-921 i2c-922 i2c-923 i2c-924 i2c-925 i2c-926 i2c-927 i2c-928 i2c-929 i2c-930 i2c-931 i2c-932 i2c-933 i2c-934 i2c-935 i2c-936 i2c-937 i2c-938 i2c-939 i2c-940 i2c-941 i2c-942 i2c-943 i2c-944 i2c-945 i2c-946 i2c-947 i2c-948 i2c-949 i2c-950 i2c-951 i2c-952 i2c-953 i2c-954 i2c-955 i2c-956 i2c-957 i2c-958 i2c-959 i2c-960 i2c-961 i2c-962 i2c-963 i2c-964 i2c-965 i2c-966 i2c-967 i2c-968 i2c-969 i2c-970 i2c-971 i2c-972 i2c-973 i2c-974 i2c-975 i2c-976 i2c-977 i2c-978 i2c-979 i2c-980 i2c-981 i2c-982 i2c-983 i2c-984 i2c-985 i2c-986 i2c-987 i2c-988 i2c-989 i2c-990 i2c-991 i2c-992 i2c-993 i2c-994 i2c-995 i2c-996 i2c-997 i2c-998 i2c-999 i2c-1000 i2c-1001 i2c-1002 i2c-1003 i2c-1004 i2c-1005 i2c-1006 i2c-1007 i2c-1008 i2c-1009 i2c-1010 i2c-1011 i2c-1012 i2c-1013 i2c-1014 i2c-1015 i2c-1016 i2c-1017 i2c-1018 i2c-1019 i2c-1020 i2c-1021 i2c-1022 i2c-1023 i2c-1024 i2c-1025 i2c-1026 i2c-1027 i2c-1028 i2c-1029 i2c-1030 i2c-1031 i2c-1032 i2c-1033 i2c-1034 i2c-1035 i2c-1036 i2c-1037 i2c-1038 i2c-1039 i2c-1040 i2c-1041 i2c-1042 i2c-1043 i2c-1044 i2c-1045 i2c-1046 i2c-1047 i2c-1048 i2c-1049 i2c-1050 i2c-1051 i2c-1052 i2c-1053 i2c-1054 i2c-1055 i2c-1056 i2c-1057 i2c-1058 i2c-1059 i2c-1060 i2c-1061 i2c-1062 i2c-1063 i2c-1064 i2c-1065 i2c-1066 i2c-1067 i2c-1068 i2c-1069 i2c-1070 i2c-1071 i2c-1072 i2c-1073 i2c-1074 i2c-1075 i2c-1076 i2c-1077 i2c-1078 i2c-1079 i2c-1080 i2c-1081 i2c-1082 i2c-1083 i2c-1084 i2c-1085 i2c-1086 i2c-1087 i2c-1088 i2c-1089 i2c-1090 i2c-1091 i2c-1092 i2c-1093 i2c-1094 i2c-1095 i2c-1096 i2c-1097 i2c-1098 i2c-1099 i2c-1100 i2c-1101 i2c-1102 i2c-1103 i2c-1104 i2c-1105 i2c-1106 i2c-1107 i2c-1108 i2c-1109 i2c-1110 i2c-1111 i2c-1112 i2c-1113 i2c-1114 i2c-1115 i2c-1116 i2c-1117 i2c-1118 i2c-1119 i2c-1120 i2c-1121 i2c-1122 i2c-1123 i2c-1124 i2c-1125 i2c-1126 i2c-1127 i2c-1128 i2c-1129 i2c-1130 i2c-1131 i2c-1132 i2c-1133 i2c-1134 i2c-1135 i2c-1136 i2c-1137 i2c-1138 i2c-1139 i2c-1140 i2c-1141 i2c-1142 i2c-1143 i2c-1144 i2c-1145 i2c-1146 i2c-1147 i2c-1148 i2c-1149 i2c-1150 i2c-1151 i2c-1152 i2c-1153 i2c-1154 i2c-1155 i2c-1156 i2c-1157 i2c-1158 i2c-1159 i2c-1160 i2c-1161 i2c-1162 i2c-1163 i2c-1164 i2c-1165 i2c-1166 i2c-1167 i2c-1168 i2c-1169 i2c-1170 i2c-1171 i2c-1172 i2c-1173 i2c-1174 i2c-1175 i2c-1176 i2c-1177 i2c-1178 i2c-1179 i2c-1180 i2c-1181 i2c-1182 i2c-1183 i2c-1184 i2c-1185 i2c-1186 i2c-1187 i2c-1188 i2c-1189 i2c-1190 i2c-1191 i2c-1192 i2c-1193 i2c-1194 i2c-1195 i2c-1196 i2c-1197 i2c-1198 i2c-1199 i2c-1200 i2c-1201 i2c-1202 i2c-1203 i2c-1204 i2c-1205 i2c-1206 i2c-1207 i2c-1208 i2c-1209 i2c-1210 i2c-1211 i2c-1212 i2c-1213 i2c-1214 i2c-1215 i2c-1216 i2c-1217 i2c-1218 i2c-1219 i2c-1220 i2c-1221 i2c-1222 i2c-1223 i2c-1224 i2c-1225 i2c-1226 i2c-1227 i2c-1228 i2c-1229 i2c-1230 i2c-1231 i2c-1232 i2c-1233 i2c-1234 i2c-1235 i2c-1236 i2c-1237 i2c-1238 i2c-1239 i2c-1240 i2c-1241 i2c-1242 i2c-1243 i2c-1244 i2c-1245 i2c-1246 i2c-1247 i2c-1248 i2c-1249 i2c-1250 i2c-1251 i2c-1252 i2c-1253 i2c-1254 i2c-1255 i2c-1256 i2c-1257 i2c-1258 i2c-1259 i2c-1260 i2c-1261 i2c-1262 i2c-1263 i2c-1264 i2c-1265 i2c-1266 i2c-1267 i2c-1268 i2c-1269 i2c-1270 i2c-1271 i2c-1272 i2c-1273 i2c-1274 i2c-1275 i2c-1276 i2c-1277 i2c-1278 i2c-1279 i2c-1280 i2c-1281 i2c-1282 i2c-1283 i2c-1284 i2c-1285 i2c-1286 i2c-1287 i2c-1288 i2c-1289 i2c-1290 i2c-1291 i2c-1292 i2c-1293 i2c-1294 i2c-1295 i2c-1296 i2c-1297 i2c-1298 i2c-1299 i2c-1300 i2c-1301 i2c-1302 i2c-1303 i2c-1304 i2c-1305 i2c-1306 i2c-1307 i2c-1308 i2c-1309 i2c-1310 i2c-1311 i2c-1312 i2c-1313 i2c-1314 i2c-1315 i2c-1316 i2c-1317 i2c-1318 i2c-1319 i2c-1320 i2c-1321 i2c-1322 i2c-1323 i2c-1324 i2c-1325 i2c-1326 i2c-1327 i2c-1328 i2c-1329 i2c-1330 i2c-1331 i2c-1332 i2c-1333 i2c-1334 i2c-1335 i2c-1336 i2c-1337 i2c-1338 i2c-1339 i2c-1340 i2c-1341 i2c-1342 i2c-1343 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