

```

1.  static struct attribute *audio_ddac_attrs[] =
2.  {
3.      &dev_attr_mode.attr,
4.      &dev_attr_freq.attr,
5.      &dev_attr_volume.attr,
6.      &dev_attr_resolution.attr,
7.      &dev_attr_transfer.attr,
8.      &dev_attr_playback.attr,
9.      NULL,
10. };
11.
12.
13. static struct attribute_group audio_ddac_dev_attr_group =
14. {
15.     .attrs = audio_ddac_attrs,
16.     .bin_attrs = audio_ddac_bin_attrs,
17. };
18.
19. static const struct attribute_group *audio_ddac_attr_groups[] =
20. {
21.     &audio_ddac_dev_attr_group,
22.     NULL,
23. };
24.
25. static struct class audio_ddac_class =
26. {
27.     .name      = "audio_ddac",
28.     .owner      = THIS_MODULE,
29.     .dev_groups = audio_ddac_attr_groups,
30. };
31.
32. ....
33.
34.     class_register(&audio_ddac_class);
35.     audio_device = device_create(&audio_ddac_class, NULL, MKDEV(0, 0), NULL,
36. "audio_op"); ①
37.     if (IS_ERR(audio_device))
38.     {
39.         dev_err(&pdev->dev, "%s: failed to create device for audio\n", __fun
40. c__);
41.         goto err_handling_0;
42.     }

```

① create "audio_op" device in `/sys/class/audio_ddac` directory

如果只是 `register` `audio_ddac` class,那么看到 `/sys/class/audio_ddac` directory是空的！

创建了"audio_op" device后，在该device下才能看到定义的这些attributes！