### A STUDY IN SEVENTEENTH CENTURY ORCHESTRATION

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by

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# TABLE OF CONTENTS

INTRODUCTION	1
Chapter I THE SIXTEENTH CENTURY - A BACKGROUND	3
Chapter II FIRST ATTEMPTS AT TRUE ORCHESTRATION	13
Introduction of Basso Continuo Methods of Orchestration Duplication of Instruments Programatic Uses of Scoring. Rapid Alternation between Instruments. Introduction of Various Instrumental Devices Dynamic Contrasts Bowing Methods. Pizzicato Employment of Obsolete Instruments Virtuoso Demands of Performers Complexities of Chiastic Scoring	32
Monteverdi's Influence	40 40 43 46
Further Development of Established Practices Significance of these Developments in	50 50 56
Chapter VI ORCHESTRATION PRACTICES LEADING TO GREATER TECHNICAL PROFICIENCY OF THE PLAYERS AND THE BEGINNINGS OF A MORE STANDARDIZED ORCHESTRA IN THE LATE SEVENTEENTH CENTURY	58

Growth of New Devices from 01d Ones. Advancements in Technical Proficienc			• •	.58
and their Effects				. 64
CONCLUSIONS				.72
FOOTNOTES				.76
Appendix I         DESCRIPTIONS OF INSTRUMENTS         Stringed Instruments         Woodwind Instruments         Brass Instruments         Percussion Instruments         Keyboard Instruments		• • • • •		.92 .95 .97 .99
Appendix II CHART OF CHIASTIC SCORING IN MONTEVERDI'S	5 "	ORI	FEO"	101
Appendix III THESAURUS OF ORCHESTRAL DEVICES				107
Appendix IV SOURCES FOR CHRONOLOGICAL CHART OF SCORIN CHRONOLOGICAL CHART OF SCORING				
BIBLIOGRAPHY				172

#### INTRODUCTION

The purpose of this study is to examine the roots of orchestration which lie in the late sixteenth and early seventeenth centuries and trace their first century of development in Europe. An effort will be made to discover whether or not there were definite patterns of growth throughout those areas which were musically most important at that time, now known as Italy, Germany, Austria, France, and England.

The first chapter deals with the background for this study of seventeenth century orchestration, summarizing sixteenth century scoring practices. In the concluding chapter these practices will be reviewed to see how they did contribute to later orchestral practices. The second chapter presents a transition from the partially scored, essentially chamber music groups of the sixteenth century, to the earliest examples of true orchestration in the late sixteenth and early seventeenth centuries. The major portion of the study (Chapters III through VI) deals with significant works of seventeenth century composers born before 1675.<sup>\*</sup> The final section presents the conclusions

<sup>\*</sup>The year 1675 has been set as an arbitrary date because it eliminates such composers as Vivaldi (b.c. 1675), Telemann (b. 1681), Bach (b.1685), and Handel (b.1685), any one of whom constitutes a study within himself; and whose major works, furthermore, belong to the eighteenth century. Composer's dates given here and elsewhere in this study are taken from <u>Baker's Biographical Dictionary of Musicians</u>, (New York, <u>1958</u>).

of the study.

For the sake of convenience much information is in chart form (see Appendices), to facilitate seeing orchestration trends at a glance, both chronologically and according to the various techniques used.

In the course of this study several questions have arisen which are difficult or even impossible to answer because of our present lack of information: How adequately were the parts scored? Were instruments used interchangeably? Were certain instruments scored because they were readily available, or were they used in an artistic sense to produce a particular tone color? How much improvisation was expected of players? Did the seventeenth century orchestra show more tendencies toward virtuosity or toward simplicity in style of playing?

I have tried to find answers to these and many other questions by direct study of seventeenth orchestral scores, and, insofar as possible, from readings in primary sources. Because so few books have been written which deal with the subject, the tentative answers to these questions must be based largely on the scores.

Chapter I

THE SIXTEENTH CENTURY - A BACKGROUND

The sixteenth century affords few examples of scoring, and of those, very few have been available to me. Composers of the sixteenth century, for the most part, simply dismissed the problem of carefully planning the instrumentation of their compositions by such phrases as "Per voci et stromenti", "Auff allerley Instrumenten", 1 or "Buone da cantare et sonare".<sup>2</sup> Occasionally composers were slightly more definite in designating the type of instruments, as "Per Sonar d'Instruméti da Fiato",<sup>3</sup> (A. Gabrieli), or "Apt for Viols and Voyces", 4 (Byrd). 5 The reason for composers' not being more specific was probably due to the fact that there was no standard group of orchestral instruments. There was instead a great assortment of families of instruments, with many variants or "bastard" instruments in each family from which the composer could choose. Lacking any tradition in scoring for specific instruments, the composer left the choice of instruments up to the performer, who played whatever instruments were available. Indeed Dorian, in his History of Music in Performance, when speaking of early orchestras, was absolutely right when he stated that in scoring the "principle was not to have a principle."6

With the available assortment, how did the player choose which instrument to play?<sup>7</sup> He merely chose one that

had the proper range. Players were supposed to be adept at reading the different clefs, so that presented no problem. The unspecified instrumental parts of a work were always in the same key, so transposition presented no problem. Praetorius in "Syntagma Musicum"<sup>8</sup> (1615-9) says that in if a part is written/either of these clefs: for , the "discount" violins or "cornetti" played. Tenor and bass instruments were also indicated by clefs, with no concern for balance or tone color. Therefore, the following example from the instrumental music of Andrea Gabrieli (c. 1520-1586) would probably be scored thus:

4

Discoust violius cornetts	B.	• P	0	00	
Alto viols Alto trombon	BIE	-	-	0. 6	0
Tenor viols Tromboues	1Bbd	-		-	-
Bass viels, Troaboues Bassoons	,9;₀¢				

Parts were often labled "cantus, altus, tenor, and bassus" or "1<sup>re</sup> and 2<sup>de</sup> dessus, haute-contre taille, and basse-contre basse"<sup>10</sup> (according to the country), to give the player an idea of the range required, with additional parts assuming numbers, "quintus, sextus", etc.

The instruments were of much lighter tone quality than present-day musical instruments, with the exception of the double-reeds; otherwise they probably would have drowned out the vocal lines they were doubling. Even the early members of the violin family had a lighter tone than now owing to a lower bridge and fingerboard and shorter neck. The flutes (both recorders and transverse flutes) were wooden, and gave a softer, more mellow sound than present-day metal ones. Also being wooden, the cornett had a more subdued sound than the trumpet. Even the trumpet and trombone were softer because of their thicker walls and smaller bell. Appendix I gives further characteristics of sixteenth and seventeenth century instruments.

It is probable that sixteenth century orchestras leaned more heavily on the woodwinds, as the following sixteenth century collections show:

1561 Elizabethan band<sup>11</sup>

Violins Flutes Cornetts Drums Fifes Oboes

1569 Verona Accademy Instruments<sup>12</sup>

5 sets of 5 viols, a lira, and a "rebechino" 7 lutes, a (2 manual) harpsichord, another harpsichord, and a regal 1 chest of 22 recorders (with crooks for 3 deepest) and 2 incomplete chests 1 case of 5 flutes, another set of 5, and 2 incomplete sets 2 tabor-pipes; 2 tabors ("Tamburi") 5 crumhorns 3 fifes 3 trombones, with crooks and tuning bits 5 tenor cornetts 4 silver mounted ordinary cornetts 8 mute cornetts 3 dragon-belled cornetts 1 curtal with reeds 1 "extremely fine" Nuremberg trumpet (36 strings, 69+ winds; tota1 = 105+)

# Instruments of King Henry VII of England 13

- 109 Strings (virginals, lutes, viols, guitars, clavichords)
- 272 Winds (cross flutes, recorders, shawms, cromornes, hornes, cornetts, organs, bagpipes)

(Tota1 = 381)

# 1582 Berlin "Hofkapelle"14

6 positive organs, 4 regals, 4 harpsichords 5 new viols and some old ones

- 3 trombones, each with crook (and a double crook for the bass), and 7 tuning bits 7 crumhorns (1 bass, 2 tenors, 2 altos, 2
- descants)
- 2 tenor shawms ("Bombardte") and 1 treble shawm ("discant Schalmey")
- 7 recorders (1 bass, 2 tenors, 2 altos, 1 descant) and a tabor pipe with them and another missing
- 8 recorders (2 basses, 3 tenors, 2 altos, 1 descant) and a small descant missing
- 9 flutes (2 basses, 4 tenors, 3 descants)
- 4 cornetts. 2 with keys; 2 without
- 1 tenor cornett with key
- 7 "Schreipfeifen" (1 bass without brass "mundstuck" - crook?, 3 tenors, 2 altos, 1 descant), 1 tenor lacks its key, all but one without staples and reeds or caps.

(Strings - 9+, Winds - 53; Total = 62+)

The location of the orchestra naturally influenced the instruments used. The orchestra used in-doors was small (around twenty-five players, according to Apel). 15 The instruments were of the quieter type - the viols, flutes, etc. This type orchestra was typical of amateur musicians who just enjoyed getting together for chamber music. 16 This practice was probably more common in England where the custom was to play pieces on instruments all of the

same family (whole consort) to produce a homogeneous timbre.

An Italian example of the indoor orchestra is that of the "Accademia Filarmonica" in Verona, which gave highly rated concerts in a music room in which the performers sat around a long table. At one end was a harpsichord, taken off its stand. Five or six wind players changed from one instrument to another as instructed by the musical director, who arranged the program of voices and instruments so as to avoid monotony of tone color.<sup>17</sup> In this case, the conductor was the orchestrator.

Church services frequently used brass instruments to accompany choirs, notably in Venice at St. Marks Cathedral. The placing of instruments in various lofts to accompany different choirs has aroused in some the mistaken idea that polychoral style originated in St. Marks.<sup>18</sup> This practice of scoring for the rather boisterous instruments such as organs, trumpets, cornetts, sackbuts , and bassoons, was probably furthered by the fact that the churches were considered places of secular reunion where people went to hear good music (if possible, above the chatter of loudvoiced ladies among themselves and with their attendant cavaliers, none of whom showed any semblance of devotion).<sup>19</sup> No doubt the brass instruments gave a thrilling sonority echoing along the stone walls of the churches.<sup>20</sup>

Instruments were frequently used in theatrical produc-

tions, such as Shakespeare's plays. In these, Shakespeare was his own orchestrator, because his text usually names the desired instruments. For example, Act II Scene I of "Merchant of Venice" prescribes "A flourish of cornets when the Moorish prince comes in."<sup>21</sup> To give another example, Lord Buckhurst in his tragedy "Gorbuduc" or "Ferrex and Porrex" (1561) specified before each act the instruments he wanted played:<sup>22</sup>

> First, the Music of Violins. . . 2nd act. The Music of cornets. 3rd act. The Music of flutes. 4th act. The Music of hautbois. 5th act. Drums and flutes.

The rather astounding orchestra used by A1. Striggio (1535-c.1595) in his Intermezzo, "Psiche ed Amore" calls for forty-four instruments.<sup>23</sup> They are listed (in the preface, most likely), but probably were not specifically designated in the score.

Outdoor instrumental combinations leaned heavily on the wind instruments, and consisted of much larger groups. There were quite a number of uses for outdoor groups, and these influenced the instruments used.

German towns employed a group of musicians for playing "tower music" or chorales and sonatas on brass instruments from the town tower, usually at 10 a.m. and 6 p.m.<sup>24</sup>

Outdoor shawm bands were popular. One of these bands (1584) was the Norwich Waits, known for "beeying a Whoale Noyse".<sup>25</sup> Shawms were certainly appropriate outdoor in-

struments, according to Mersenne's statement: "Ils sont le son le plus fort et le plus violent de tous les instruments, si l'on excepte la trompette."<sup>26</sup> It is understandable that the Norwich Waits changed from shawms to recorders for indoor civic receptions, etc.

There were frequent ceremonial and festive celebrations, some outdoors, some inside, which used quite a number of instruments.<sup>27</sup> Vincenzo's coronation on September 22, 1587, at the court of Mantua deserves a description as a typical celebration.<sup>28</sup> It was held in the Interior of San Pietro which was decorated with drapes of cloth and gold, silk, taffeta, satin, velvet, and brocade. Gowns worn by all were of similiar materials, and displayed a dazzling abundance of colors and jewels. A large number of musicians played and sang "concerti for organ, voices, cornets, and trombones". After Vincenzo's speech abolishing half the taxation of wine, "A harmonious concerto of trombones began to be played, placed on an elevation of marble, just above the door of the church toward the piazzo, and at the same time there was an outburst of cannon, of drums, small and large, of cries of joy, even of horses neighing, and of so many bells that in such a noise truly the onlookers could not understand their own words."

Whether or not the concerti mentioned above had the instrumentation actually written in the parts is doubtful; it was probably taken for granted that brass instruments

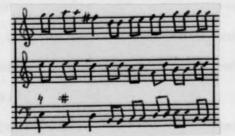
should play.

Baltasar de Beaujoyeaux (? - c.1589) was a little more specific in his "Balet comique de la Royne" produced in 1581 to celebrate the nuptials of Margaret of Lorraine to the Duke of Joyuse.<sup>29</sup> The orchestra was divided into groups including a small organ, oboes, flutes, cornetts, sackbuts , strings, lutes, lyres, and harps, so placed (some on-stage) that they accompanied a particular tableau or dance. Baltazarini even went so far as to draw pictures in the score of the desired instruments, and according to Carse, included quite accurate pictures of a bass viol and another viol, as well as some "less happy" representations of cornetts and other wind instruments.<sup>30</sup> The parts themselves were scored only for "Superius, 2nd Superius, Contra, Tenor, and Bassus". The unwritten overture was intended to be improvised by "oboes, cornetti, trombones, et autres instruments de musique", and was probably a noisy preliminary flourish, typical of that time.

Few devices were used in scoring in the sixteenth century, but it is necessary to mention them to be able to compare them with later developments. On the whole, the parts were quite simple, with little differentation between the several instrumental parts, as this example from the first dance from "Balet Comique" shows.<sup>31</sup>

à premiere entrée

A device which had its origin in the sixteenth century, but was not common until much later, was the repeated note figure. One of the earliest examples is from one of the "Diologo Musical" by Baldassare Donati (1520-1603) from "Guidizio d'Amore" of 1599.<sup>32</sup> The repeated note figure was to lead eventually to the device of bowed tremolo.



Though not too common, repeated notes played by wind instruments, later leading to double and triple tonguing, had their beginnings with Andrea Gabrieli as this example from "Aria della Battaglia, per sonar d'Instrumeti da Fiato" shows:<sup>33</sup>

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From these examples, it can be seen that by the end of the sixteenth century only the most meagre attempts had been made at orchestration, the most ambitious being by such composers as Striggio and Baltazarini. These scattered and unformulated ideas were given better definition by Thomas Morley and Giovanni Gabrieli, with whom the next chapter is concerned.

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#### Chapter II

FIRST ATTEMPTS AT TRUE ORCHESTRATION

Until quite recently, it has been generally thought that the first example of instruments being specified as an ensemble occurred in Giovanni Gabrieli's "Sacred Symphonies I" of 1597. Recent research on the part of Dr. Sidney Beck has revealed that Thomas Morley's (1557-c.1603) "First Booke of Consort Lessons" (1599) may be the first important orchestration milestone.<sup>34</sup> The title of this collection of pieces by "divers exquisite Authors" (merely edited by Morley) gives its instrumentation: "for sixe Instruments to play together: viz. the Treble Lute, the Pandora, the Citterne, the Base-Violl, the Flute, and the Treble Violl." 35 The flute was doubtless an alto or bass , out of the range recorder, its lowest note being of a transverse flute.<sup>36</sup> Until recently, the parts for each instrument were scattered, with a cittern part in the Bodleian Library at Oxford, a flute part in the British Museum, a treble viol part in the Royal College of Music, a pandora part in Christ Church (with another copy elsewhere), while the treble lute and bass viol parts had disappeared altogether.<sup>37</sup> Though Morley was careful in designating the instruments, the dedication of the collection (to Lord Mayor of London) would have one believe that he would not be greatly concerned if those instruments were not used: "They be set for diverse Instruments: to the end that whose

skill or liking regardeth not the one, may attempt some other."<sup>38</sup>

On the other hand, Gabrieli's "Symphoniae Sacrae. . . Tam vocibus, quam instrumentis. . ." is more definite in its scoring than the inscription would indicate. It actually designated specific instruments within the body of the score, and was even printed in part books for the instrumentalist's convenience.<sup>39</sup> This was the first time that instrumental parts were scored independently of vocal parts.

Giovanni Gabrieli (1557-1612) had the advantage of living in Venice, the wealthiest and most cosmopolitan city in Italy, with its many receptions and celebrations. Furthermore, he was organist and composer at St. Marks and had access to its good assortment of instruments<sup>40</sup> and performers. It was for the latter that he developed his "concertato" style, or method of contrasting of voices and instruments for the sake of color.<sup>41</sup>

The following combinations from different sections of the "Sacred Symphonies I" illustrate his use of concertato style:<sup>42</sup>

2 cornetti answered by 2 violas.43

- 1st cornett, 1st viola, 3rd (tenor) trombone, tenor and bass voices; answered by 2nd cornett, 2nd viola, 1st and 2nd (bass) trombones and alto voice.
- 1 accompanied choir (various instruments) answered by a cappella choir.

Some of the vocal motet scores indicated doublings for particular instruments, and, according to Flower, the instruments took over the parts when they went out of comfortable vocal range.<sup>44</sup> There was no distinction between the capabilities of the voices, trombones, violins, or cornetts.

Unquestionably, the highlight of the 1597 "Sacred Symphonies I" is the "Sonata Pian e Forte" which further exemplifies Gabrieli's desire for contrast. "Sonata Pian e Forte" was the first composition to differentiate between dynamic levels. This is not indicated by special signs within the body of the music as in later compositions, but in the title, which, translated, reads (Music to be) "Sounded Soft and Loud". It is achieved by having two choirs of instruments: First choir - 2 alto trombones, 1 tenor trombone, and 1 cornett; Second choir - 1 viola (!), 2 tenor trombones, and 1 bass trombone, which play softly when used singly, and loudly when combined.<sup>45</sup>

This combination of six trombones, one cornett, and one viola seems quite strange to modern ears, but is must be remembered that sixteenth and seventeenth century trombones had a softer and less brilliant tone quality. The cornett was not very loud, so in lightly scored passages, the viola could be heard as the treble member of its choir.

G. Gabrieli's "Sacred Symphonies II" of 1612 also had effective scoring and used the concertato style, such as

the "Suscipe Clementissme" for six voices and six trombones.

In his motet "In Ecclesiis"<sup>46</sup> for organ, three cornetts, viola, and two trombones, Gabrieli achieves wonderful concertato effects by contrasting ensembles such as full chorus, solo quartet, instruments alone, and instruments doubling the voices at the octave. The ending of this composition illustrates one of the rare occasions of differentiation between instrumental and vocal writing, in which the instrumental parts could be performed only by trained virtuosi.<sup>47</sup>

Though the Morley collection may prove to have been the first music designating particular instruments for particular effects, it was Gabrieli who had more influence over later composers such as Monteverdi and Heinrich Schütz, as will be seen later. Because of Gabrieli's use of light and dark contrasts through different dynamic levels, and his glowing color obtained by orchestration, Leichtentritt has justifiably compared his polychoral music to the art of Titian, Paolo Veronese, and Tintoretto.<sup>48</sup>

Chapter III

ITALIAN CONTRIBUTIONS IN INSTRUMENTATION BY COMPOSERS OF THE EARLY SEVENTEENTH CENTURY<sup>49</sup>

Introduction of Basso Continuo

During the time Gabrieli was working in Venice, there was a small Florentine group called the Camerata<sup>50</sup> which developed a new style of singing called monody, in reaction against sixteenth century polyphony. In monody, instead of all musical parts being of equal importance, the melodic line and bass parts became most important.<sup>51</sup> The inner parts were not even written down, but were designated by a type of musical shorthand called "figured bass", in which numbers placed under or above the bass line indicated the chords, inversions, dissonances, accidentals, etc. Of course this affected instrumentation. Instruments capable of playing chords (harpsichord- and lute-type instruments) were needed to realize the basso continuo; and since the bass register of these instruments was relatively weak, they were always required to be doubled on the bass line by a low-pitched instrument (bass gamba or bassoon). The instruments were usually not scored in the parts, as this typical example of a ritornello from Peri's "Euridice" (1600) shows: 52



It could have been played by any one or all of the instruments mentioned in the  $Preface^{53}$  (gravicembalo,<sup>54</sup> theorbo, large lute), plus a lira grande.<sup>55</sup>

The instrumentalists were expected to improvise by "realizing" the figured bass, that is, by filling in the missing chord tones. It was understood that appropriate embellishments were to be included. Therefore, two instrumentalists might not perform the same piece in the same way. In fact, the same instrumentalist might not perform the same piece in the same way twice.

### Methods of Orchestration

As already explained, many early works of the seventeenth century did not call for any particular instruments, but assumed that appropriate basso continuo instruments would play. Other Camerata works which exemplify this are as follows: Peri's "Daphne" (1597), Caccini's "Euridice" (1600), and Gagliano's "Daphne" (1607).

Some works were a bit more specific by naming the desired instruments in their Preface, although not indicating their precise musical line. Peri's "Euridice", mentioned above (also see footnote 53), is scored by this method, as is Cavalieri's Oratorio<sup>56</sup> "Rappresentazione di Anima e di Corpo" (1600). Cavalieri suggested the following instruments:<sup>57</sup> "Una lira doppia, un clavicembalo, un chitarrone, flauti, o vero due tibie all' antica". He also adds, "Un violino sonando il soprano per l'apunto farà buonissimo effetto."58 Thus the following portion of Cavaliere's "Animo e Corpo" for a ". . .gran quantita di stromenti" is an example of ambigious scoring:<sup>59</sup>



It would probably have been played by all the instruments mentioned in the Preface. $^{60}$ 

Little by little, however, some indication as to the desired instruments began to creep into the score itself. Both Cavalieri's "Animo e Corpo" and Peri's "Euridice" are unscored for the most part, but both include sections specifically calling for two and three flutes respectively.<sup>61</sup> The following example from Peri's "Euridice" is typical with its melody in thirds and crossing of voices:<sup>62</sup>



The greatest piece of orchestration early in the seventeenth century was Monteverdi's "Orfeo" (1607), which both lists a large quantity of instruments in the Preface and also specifies them within the body of the score.<sup>63</sup> This copy of the facimile is taken from the Preface.

## STROMENTI.

Duoi Gravicembani. Duoi Gravicembani. Duoi conteabaffi de Viola. Dieci Viole da brazza Un Arpa doppia. Duoi Violini piccoli alla Francefe. Duoi Chiteroni. Duoi Organi di legna Tre baffi da gamba. Quattro Tromboni. Un Regale Duoi Cornetti. Vn Regale Duoi Cornetti. Vn Flautino alla Vigefima Seconda Un Clarino on tre trombe fordine.

He began with an overture<sup>64</sup> scored for "Ottoni", or brass instruments. The five parts of the score are marked "Clarino, Quinto, Alto, Vulgano, e Basso". As can be seen from this example, the inner parts could be played on a valveless instrument,<sup>65</sup> though their naming is somewhat confusing.



"Clarino" designated the extremely high trumpet part so familiar in Baroque music which was played entirely on the upper notes of the harmonic series (between the eighth and sixteenth harmonics), a feat so impossible on today's instruments:

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"Quintd' is not the fifth part nor on the fifth degree of the scale. It plays only four different notes in this score. Perhaps Monteverdi wrote the outer voices first, then added the inner voices from the bottom up, thereby writing the "Quinto" part fifth. "Alto" is not the second part but is in the range of an alto trombone. "Vulgano" has baffled many historians, but "vurgano" seems to have been the name of one of the lower open notes on the trumpet (according to Girolamo Tantini, 1636),<sup>66</sup> namely the "G" which the "Vulgano" plays. "Bassus" probably meant trombone.

Frequently Monteverdi partially scored parts by naming the desired instruments, but not designating a particular musical line for each, as in this example with the heading: "Questo ritornello fu suonato di dentro du un Clavicembano, duoi Chitaroni, e duoi Violini piccoli alla francese."67

sectif

It was doubtless scored with the two violins playing the top lines and the clavicembalo and two chitarroni realizing the bass part.

But at still other times he was quite explicit: "here enter the trombones, cornets, hand-organs" or "the other parts to be played by three viole da braccio, and a contrabass to be touched very softly."<sup>68</sup>

One cannot always trust Monteverdi's instructions in his Prefaces, for in "Vespers" (1610) his directions, "sex vocibus et sex instrumentis" are quite misleading. On the first page of the Doxology he indicates no fewer than twelve different instruments, not counting basso continuo!<sup>69</sup> The orchestration for "Tirsi e Clori" was discussed in a letter to Striggio, November 21, 1615, and the suggestions in the letter were inconsistent with the score. He described the "Ballo" section as "instrumenti a 5" and required these instruments: eight violas da braccio, one contrabass, a small spinet; adding "and if there could be two small lutes, it would be beautiful." This made a total of twelve instruments, none of which were listed in the original score.<sup>70</sup>

Monteverdi's later works were not as elaborately or as carefully scored as "Orfeo". "Arianna" (1608) may have been an exception, for though the score is lost (except for Arianna's famous "Lament"), it was supposedly as richly scored as "Orfeo".<sup>71</sup>

By the time of "L'incorenazione di Poppea" (1642), his last work, Monteverdi had settled his style of orchestration, so that his scores had a fairly uniform look, as shown by this facsimile tracing from the Prologue, scored for strings and basso continuo:<sup>72</sup>

THEFF

#### Duplication of Instruments

The seventeenth century still retained some fondness for using instruments all of one timbre, which was Possibly a residue of the sixteenth century idea of consorts. This has been seen in Peri's "Euridice", in which there were three flutes used as a trio. Francesca Caccini, daughter of Giulio Caccini, and one of the first women composers, also wrote a flute trio in her opera "La Liberazione di Ruggiero dall Isola d'Alcina." According to Doris Silbert, it was inspired by her father's ritornello for three recorders in the song of Tirsi from his opera "Euridice".<sup>73</sup>

The Overture to "Orfeo " specifies "Ottoni", or all brass instruments, as mentioned on page 21.

Monteverdi used four trombones<sup>74</sup> in some of his religious works, including his "Concertante Psalms", "Selva" (1641), and four Masses. In each case the four trombones could be exchanged for four violas da braccio. Towards the middle of the century, the trend was toward the homogeneous texture of strings. The stringed instruments were much more expressive, an important element to the monodic style of writing.

After 1637 with the opening of various large opera houses, scores suggested the doubling of all parts for the practical reason of making them heard. In Monteverdi's "I1 Ballo delle Ingrate" (1608), he advised that the instruments (five violas da brazzio, harpsichord and chitarrone) each be doubled if made necessary by the size of the hall.<sup>75</sup> The noisy wind machines in "Tirsi e Clori" prompted him to complain in the letter to Striggio (mentioned on page 23) that he could not employ beautiful harmonies and was forced to double certain instruments (three chitarroni instead of one; three harps instead of one). He was also forced to use more wind instruments than delicate strings.<sup>76</sup>

### Programatic Uses of Scoring

In the early seventeenth century, composers began to use certain instruments for the furtherance of dramatic details. Members of the Camerata were anxious to imitate the Greeks, so they chose instruments which they thought best resembled the Greek kithara and aulos. For this they chose members of the lute family (plucked like the kithara), and of the flute, or recorder family (blown like the aulos).<sup>77</sup> Flutes became associated with pastorale scenes as evidenced by the trio for flutes in Peri's "Euridice" (See page 20). This was supposed to have been a "solo" played on a triple flute by a shepherd on-stage, but in reality, was played by three hidden flutes.<sup>78</sup> "Orfeo" offers examples of flutes accompanying pastoral scenes. Francesca Caccini's opera "La Liberazione. . ." includes a "pretty little trio for recorders" as a ritornello for a shepherd's song. Flutes were specified in the Preface, but in the music they were scored only by clef:<sup>79</sup>



Brass instruments came to be associated with the infernal world. Monteverdi's "Orfeo" offers the best early Italian example of this, with its choir of trombones and cornetts plus regal and organ, accompanying every infernal scene.

Monteverdi must also have associated drums with Hades, for, as the curtain raised on "II Ballo delle Ingrate" (1608) showing the flaming jaws of hell, he designed a long thunderous discord, produced by muffled drums playing underneath the stage.

The music in Monteverdi's "Il Combattimento di Tancredi e Clorinda" (1624) was particularly effective in furthering the dramatic impact of the text. In it, Monteverdi pictured the agitation of battle between the two lovers Tancredi and Clorinda, by a bowing device known as tremolo. He built up to this rapid alternation of bow strokes in several stages of progressivly shorter note values:<sup>80</sup>





By the time the sixteenth notes were reached, the excitement

on the battlefield was at its highest peak.

This device occurred again in "Il Ritorno di Ulisse in Patria" to describe the battle scene between Ulysses and Penelope's suitors.

In "Il Combattimento. . . " he further added to the dramatic impact the sounds of swords clashing, imitated by the strings of the viols being plucked (pizzicato).<sup>81</sup>



"Orfeo", besides having instrumentation suited to different scenes,<sup>82</sup> afforded instrumental character delineations. Orfeo was often accompanied by the organo di legno and chitarrone, while Charon was always accompanied by the regal. Less important characters were accompanied by the clavichord.<sup>83</sup> Monteverdi did not carry this character "leit-motif" idea into his other works, but it was employed by Heinrich Schutz as will be seen in the following chapter.

Not in association with a plot or characters, but decidedly for programatic purposes, is the "Capriccio Stravagante" (1627) by Carlo Farina (fl. 1635), for four strings. It is a truly "extravagant" attempt at imitating dogs, cats, chickens, trumpets, soldier's pipes, lyre, and tambourine.<sup>84</sup> In an appendix to "Capriccio Stravagante" Farina explained how to produce these prototechniques.<sup>85</sup>



Instruments were frequently important to the plot of the drama, though they were hidden from sight. Often the

actors would themselves pretend to be playing the instruments while those off-stage were actually playing, according to Charles Burney:<sup>86</sup> "On many occasions it was recommended for the actors to have instruments in their hands, as the playing, or, appearing to play on them, would help illusion more than a visible orchestra." Monteverdi, for his "Tirsi e Clori", instructed that the performers should stand in a half circle, like a half moon. At each corner of the half circle should be a chitarrone and a clavicembalo as continuo instruments (one for Tirsi; one for Clori). They were to be held and played, but he added that it would be better if Clori could have a harp instead of a chitarrone. In fact, actors were sometimes required to play instruments with the hidden orchestra, while they were not needed onstage. This must have been difficult for the heavily costumed actors, and may have had some bearing on the orchestra's being hidden, i.e., for convenience's sake.

Monteverdi, probably more than any other composer, realized the true dramatic importance of the instruments, because most of his works bear the warning that instruments should be played "in imitation of the meaning of the text."<sup>87</sup>

# Rapid Alternation Between Instruments

Quite rapid "dialogue" between different instruments was not uncommon in the early seventeenth century and may have been inspired by G. Gabrieli's somewhat more conserv-

ative alternation between instruments and choirs of instruments. Paolo Quagliati's (1555-1628) "Sfera Armoniosa" (1623) shows an example of the rapid alternation of the theorbo with other basso continuo instruments.<sup>88</sup>



Much of the alternation between instruments in "Orfeo" comes as a result of the character delineations.<sup>89</sup> The dialogue of characters necessitates the alternation of their instrumental accompaniments. The alternating of instruments is not always forced into a pattern by the singers' dialogue, however. A significant exception which recurs more than once is the chorus for nymphs and shepherds from Act II, in which the clavichord alternates with the harp and chitarrone every measure:<sup>90</sup>



#### Introduction of Various Instrumental Devices

Dynamic contrasts

Dynamic markings were not too common in the early seventeenth century. Either the voices and instruments followed the rise and fall of the melodic line. or dynamic contrasts were taken care of by the scoring, as in Gabrieli's "Sonata pian e forte". Abbreviated symbols must have been used somewhat in the first part of the century, considering the words of Domenico Mazzocchi (1592-1665) in his Preface to "Partitura de Madrigali" written in 1638: "the. . .letters F.P.E.t for Forte, Piano, Echo, and trill are already common affairs known to all."91 They may have been "common affairs", but it seems that Monteverdi was one of the very first to write them in the parts. Directions to the players in "Orfeo" and "Tirsi e Clori" read: ". . .a contrabass to be touched very softly."92 "Il Combattimento" contains a curious thing in all parts simultaneously. It would seem to be a type of subito: 93 forte The tied one bow notes were supposed to be played with J stroke, a practice that dated back to 1617 with Marini's works (c. 1597-1665).94

Muted instruments were known to the early seventeenth century, but the only early score calling for this particular type of dynamic control was "Orfeo", which used three muted trumpets. Most history books ascribe the first use of muted strings to Lully (1686), but Mersenne wrote of it as early as 1636, four years after Lully was born.95

#### Bowing methods

Monteverdi receives credit for another important instrumental device mentioned heretofore — bowed tremolo. This device was first used in "Il Combattimento" (1624). According to several accounts, when Monteverdi showed his players how the tremolo should be played, they were quite amused and at first refused to "shake a cord sixteen times in a single bar".<sup>96</sup> Other composers who used tremolo were Marini and Usper. Repeated notes in the melodic line had been becoming more common in many works, as a foreshadowing of the tremolo.<sup>97</sup>

Donati, "Diologo Musical" Quagliati, "Le Sfera Amoniosa" (1623) Violino (1599) 

Col legno bowing, or bowing with the wooden part of the bow in rhythmic patterns, was first introduced in 1627 by Carlo Farino in "Capriccio Stravagante". This work also called for the devices of double stopping and harmonics.<sup>98</sup>

Scores of this period did not indicate up-bow or downbow. Ganassi's method (1542) used dots for down-bows and lack of dots for up-bows, showing that the problem was considered.<sup>99</sup>

Legato was the usual style of bowing. Ganassi recommended that long notes be played with full bows, and short notes (1529) with short bows.<sup>100</sup> Agricola/recommended that whole bows be used for all note values.<sup>101</sup> Mersenne said it was even possible to play an entire "courante" on one bow!

#### Pizzicato

Plucking the strings has already been mentioned with the credit for this innovation being attributed to Monteverdi. His "Qui si lascia l'arco e si strappano le corde 102 con duoi diti", canceled by "Qui si ripiglia l'arco", was not so eagerly seized upon by other composers as was tremolo. Incidentally, players of today pluck with only one finger instead of two.

Employment of Obsolete Instruments<sup>103</sup>

Since the first of the seventeenth century, members of the violin family had been gradually attaining more attention, but composers as a whole favored the viols. However, when parts were unscored, they were probably intended for viols. Otherwise, the music would indicate something like the following: "Un violino sonando il soprano per l'apunto, farà buonissimo effetto." <sup>104</sup>

In his attempt to imitate the Greeks, Cavalieri scored for "due tible all'antica"<sup>105</sup> (in default of flutes). This is a confusing bit of orchestration (see footnote 61), but shows well the "musicological" spirit of the Camerata in trying to be antiquarian. This scoring for "tible" seems to be an isolated case.

Cavalieri also calls for a strange instrument in his "Aria", "Io piango Filli". It is scored for two "Floten" and tenor, but the flutes could have been replaced rangewise by two "sordelline".<sup>107</sup>

"Orfeo's" instruments were, for the most part, familiar to sixteenth century instrumental groups; and though the instruments were not obsolete, some of them soon became so. These instruments included one of the lesser used members of the viol family, the "violini piccoli alla Francese", and the woodwind instrument, the "flautino alla Vigesima seconda". Both of these instruments played in the very high register, which probably had something to do with their becoming obsolete as more melodic and expressive music became predominant.

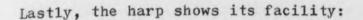
Shawms were undoubtedly much used in the early seventeenth century, but few scores call for them. Monteverdi used them in his "Vespers of 1610" and again in his "Magnificat septem vocibus et sex instrumentis". In the latter work he refers to them as "fiffari".<sup>108</sup>

#### Virtuoso Demands on Performers

Instrumentalists were probably capable of playing more technically difficult passages than are found in most seventeenth century orchestral literature, with the exception of "Orfeo". Tempos in the seventeenth century were slower than today, and few seventeenth century works have note values faster than sixteenth notes. Instrumental ranges were so much smaller than today's, that fifth position was a staggering height to violinists!<sup>109</sup> The climax of "Orfeo", 'Possente Spirto', provides some of the most difficult writing. The following violin duo is interspersed between equally florid vocal sections:<sup>110</sup>



Next the cornetts play passages equally as florid as the violins':





There are other spots of difficulty such as the Ritornello #6 for "Ottavini", or octave flutes, played and sounding an octave above the written notes:111



This made the flutes' highest note sound .

It is rather curious that Ritornello #7 was scored for five-part violes, but the first chord (which is repeated three more times throughout the piece) contains six notes.<sup>112</sup> This chord could be intended for the clavicembalo and chitarroni which play immediately before and after the ritornello, but if not during, it meant doublestopping for one of the viole parts. It is not hard to imagine that Monteverdi intended double-stopping, since by 1617, only ten years later, Marini called for triple-stopping in one of his violin sonatas.<sup>113</sup>

Nothing is said about the instrumentalists having to improvise on his part in "Orfeo". Of course the basso con-

tinuo had to be realized by several instruments, but the other instrumental parts seem written out in full.<sup>114</sup> Quagliati, in "La Sfera Armoniosa", was quite explicit in his Preface's "Instructions for the Violin": "Nell' opere concertate con il Violino, il Sonatore ha da sonare giusto come sta adornadola con trilli, & senza passaggi".<sup>115</sup>

#### Complexities of Chiastic Scoring

The orchestration genius, Monteverdi, was not content with all the scoring innovations in his masterpiece, "Orfed", but went a step farther and organized everything into a great chiastic structure, balanced in each part. The accompanied dialogue between characters with ritornelli interspersed, while showing musical variety, at the same time balance the orchestration. There is cohesion and balance between the various acts, by the re-appearance of several ritornelli and sinfonias, sometimes scored the same, sometimes varied.<sup>116</sup> The complex nature of such a work can readily be seen, but it took the mind of a Monteverdi to avoid a monotonous stodginess in this pattern of scoring.

### Shift of "Klangideal"117

Surprisingly enough, with all its remarkable contributions, the score for "Orfeo" represents a Renaissance rather than a Baroque type orchestra. The Baroque ideal

was toward the lighter, more expressive quality of the strings; Monteverdi's "Orfeo" contained more non-stringed instruments than stringed instruments. "Orfeo"118 was more comparable with Striggio's orchestra, with Beaujoyeux's, or with G. Gabrieli's. His later works, though not possess ing the instrumental varieties of "Orfeo", are actually more advanced from an orchestration standpoint. The Camerata's works were even more advanced in orchestration than "Orfeo", because in each composition the emphasis was on stringed instruments. Woodwinds only added color in very special places. So it was with Monteverdi, by the time he wrote his last work, "L'Incoronazione di Poppea". In a sense it can be said that Monteverdi's works represent a transition from the Renaissance ideal to the Baroque ideal of orchestration - they show the gradual shift of emphasis from wind instruments to strings.

Chapter IV

SPREAD OF ORCHESTRATION TO OTHER COUNTRIES IN THE EARLY SEVENTEENTH CENTURY

Countries other than Italy were much slower in adopting the idea of scoring for particular instruments. Germany, despite the Thirty Years War (1618-1648), was more agressive than some of the other countries. Austria made a few contributions by composers otherwise unknown. England retained her sixteenth century habit of writing for viols; and France did not even enter into the picture.

G. Gabrieli and Monteverdi seem to have been the two main influences on scoring in other countries. The German Heinrich Schütz (1585-1672) absorbed elements of the style of both of these composers by studying with them in the years 1609-12 and 1628-9, respectively.<sup>119</sup>

#### Gabrieli's Influence

Many other German composers followed the sixteenth century practice of not specifing the instrumentation. On the other hand, composers such as Samuel Scheidt (1587-1654) and J. H. Schein (1586-1630), who did call for particular instruments, were like Gabrieli, because in scoring for instruments such as cornetts, viols, and recorders, they were striving for colorful instrumental settings to use in concertato style with the voices. Unlike his contemporaries, Schütz was not usually a careless orchestrator. His "Psalmen Davids" (1619) were carefully planned, with almost every Psalm showing a different kind of sonority. A few of these sonorities included: (compare with Gabrieli's, page 14).<sup>120</sup>

#### Choir I

#### Choir II

(1) 4 viols	4 cornetts & trombone
(2) 2 trombones & 2 voices	2 trombones & 2 voices
(3) 3 cornetts & voice	3 trombones & voice
(4) lute & voice	3 viols
(5) 3 cornetts, bassoon, & voice	4 trombones
(6) 2 violins & voice	5 bassoons & voice

#### Choir III

Choir IV

(1) $(2)$	a cappella	a cappella
(3) (4) (5)	a cappella 4 trombones a cappella 2 cornetts & voice	a cappella 4 trombones, voice, & double chorus

Read (1) through all four choirs, etc.)

Sometimes Schutz gave the player a choice between two instruments as in Psalm 150 for "3 cornetti o Violini", "2 tromboni o fagotti", and "cornetto o flauto".<sup>121</sup> Nevertheless, when there was a solo within the body of the score, Schutz designated the instrument to play it, even though it was not the first named in order of preference.122



Psalm 136 was even scored for Timpani.<sup>123</sup> The timpani player was obviously meant to improvise, however, because he had no independent part and certainly could not have played the trumpet's music.

Schutz's "Sacred Symphonies" (I-1628, II-1647, and III-1650) were modeled after Gabrieli's, and the first set particularly shows the master's influence. Once again the instrumental groups were quite colorful and varied.

"Fili mi Absalon" from "Sacred Symphonies I" has achieved fame because of its sombre introduction of four trombones setting the mood for the tragic lament sung by bass voice.

Carse remarked that perhaps Schutz showed a special fondness for bassoons in the "Sacred Symphonies". He

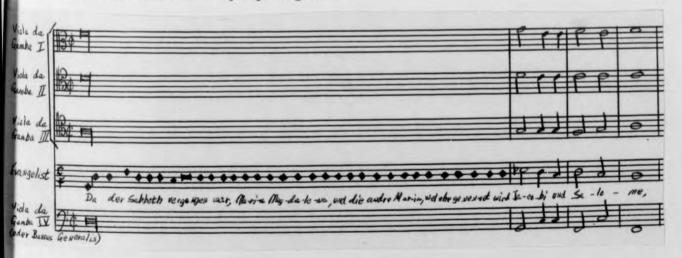
42

pointed out that some of the vocal numbers were accompanied by nothing but three bassoons which, in the Sinfonias, "solemnly chase one another up and down in scale and arpeggio passages."<sup>125</sup>

"Sacred Symphonies II" contains one number influenced by Gabrieli's "Sonata Pian e Forte" from his "Sacred Symphony I". Schutz's piece has "Forte" and "Piano" written in the vocal parts. It also includes the tempo markings "Praesto" and "Tarde".126

#### Monteverdi's Influence

Elements of Monteverdi's style can be found in Schutz's work even before the years 1628-9 when he studied with Monteverdi. In his Easter Oratorio, "Historia der Auferstehung Jesu Christi" (1623), as in "Orfeo", there is association of instruments with particular characters. The Evangelist is always accompanied by four violas da gamba and the other characters solely by organ.<sup>127</sup>



The gambas must have given an ethereal sounding background to the Evangelist, which changed abruptly (even the basso continuo gamba was tacet) when another character entered.

Another work to use character scoring was "Seven Last Words from the Cross" (1664). In this work, all voices are accompanied by only basso continuo except for Jesus, who has an instrumental background. The instruments are not specified, but probably should be strings. 128



Schutz reached his highest peak in character scoring in his Christmas Oratorio, "Historia der freuden - und gnadenreichen Geburt Gottes und Marien Sohnes Jesu Christi" (1664). In it he surpassed his master in linking persons with tone colors. His character-instrumental associations were as follows:

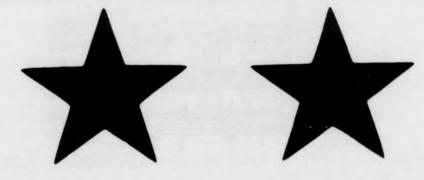
> Shepherds (3 altos) Wise men (3 tenors) High Priests (4 basses) Scribes Herod (bass) Ange1 Evangelist

Flutes and Bassoon Violins and Bassoon Trombones

Trumpets 2 Violas Continuo

The accompaniment for the Evangelist is opposite from what it was in the Easter Oratorio. Shepherds are asso-

# CORRECTION



## PRECEDING IMAGE HAS BEEN REFILMED TO ASSURE LEGIBILITY OR TO CORRECT A POSSIBLE ERROR

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> Shepherds (3 altos) Wise men (3 tenors) High Priests Scribes Herod (bass) Angel Evangelist

Flutes and Bassoon Violins and Bassoon Trombones

Trumpets 2 Violas Continuo

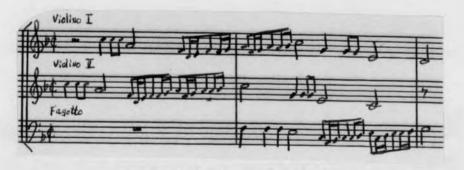
The accompaniment for the Evangelist is opposite from what it was in the Easter Oratorio. Shepherds are associated with the pastorale sounding flute. Perhaps Schutz associated Herod and the Priests and Scribes with hell, because he had them accompanied by brass instruments. The "good" characters he associated with strings, and therefore scored the wise men with violins and the angel with two violas. When this music was first published, it was in the continuo reduction only, but advertized that full parts could be rented "for a moderate fee."<sup>130</sup>

There is possibly a slight attempt at chiastic scoring in "Seven Last Words", in which a symphonia occurs near the beginning and again near the end. This may be purely coincidental, but may have been deliberate, though on nothing like as great a scale as "Orfeo".

The "Sacred Symphonies III" show imitation of Monteverdi's "I1 Combattimento" in using the bowed tremolo.<sup>131</sup>

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Schutz's works, like both Gabrieli's and Monteverdi's, make some technical demands on the players. In the following example, the bassoon is treated like the stringed instruments, and if the note values are any indication of tempo, the bassoon player would have to be rather facile to keep up with his more active partners.<sup>132</sup>

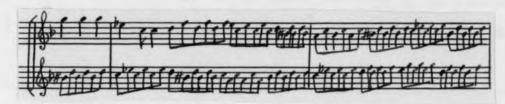


Innovations

Vocal text painting was a common thing all through the sixteenth century, but Schutz adapted it to instrumental writing in the Psalm 150 of the "Psalmen Davids". He appropriately scored the words "Lobet ihn . . . mit Posaunen" with trombones.<sup>133</sup>



Fingered tremolo was uncommon to the early seventeenth century, but Schutz may have an example of it in his "Sacred Symphonies III", if this unscored work is intended for strings.<sup>134</sup>



Two rather unusual Austrian compositions cannot be said to be in imitation of either Gabrieli, Monteverdi, or Schutz. Christopher Strauss's (1580-1631) "Requiem" (published in 1631) represents the first attempt to have an instrumental ensemble imitate bells. Below is an excerpt from the beginning instrumental introduction entitled "Symphonia ad imitationem campanae":<sup>135</sup>



Another masterpiece commissioned for the Austrian cathedral at Salzburg, but actually written by an Italian, is Orazio Benevoli's (1605-1672) "Festmesse für 53 Stimmen" Work (1628) which was a pioneer/in writing for a huge number of vocal and instrumental parts. Indeed, no monumental work of the past three centuries can compare to the fantastic appearance of this score in fifty-three parts:<sup>136</sup> (See following page.)

The instruments play quite an important part having frequent soli, and are rarely doubled with the voices. Sections are used antiphonally such as opposing string or brass choirs, or woodwinds against brasses. At one point both string orchestras are in unison. The flutes and obœs are usually paired in one way or another. This example shows the most usual way, with first flute and first obœe doubled and second flute and second obœe doubled, all at the unison, with the third and fourth flutes in thirds playing filler.<sup>137</sup>



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The viols are frequently doubled with the trombones and trumpets, but have a slightly more florid part. The clarini are comparatively isolated, and are used in duo fashion. In tutti passages, the brass instruments contribute short motifs in "punctuation" fashion. The whole composition, consisting of eight choirs, is held together with a "master" continuo (the two vocal choirs having a smaller continuo). The master continuo is composed of violoncellos, double basses, bassoons, bass-lute, 2 organs, clavicembali, lutes, harps, and other instruments.<sup>138</sup> In the last movement, "Plaudite Tympana", the organs from both continuo parts double, with the trombone from Choir IV, in canon more or less welding all parts together.

So magnificent is this setting of the mass both for choral as well as instrumental writing, that Leichtentritt has described it as being a translation of the term "Baroque".<sup>139</sup>

#### Chapter V

DEVELOPMENT OF MORE IDIOMATIC WRITING FOR INSTRUMENTS IN ALL COUNTRIES DURING THE MIDDLE OF THE CENTURY

Composers from Italy, Germany, Austria, France, and England during the middle part 140 of the seventeenth century carried on the ideas introduced by their predecessors, mainly the early Italians. Though few real innovations can be attributed to the middle of the century, the instrumental writing is more characteristic for the instruments and more differentiated from the vocal writing.

Further Development of Established Practices

It must be remembered that not nearly all of the works written by the middle of the century were orchestrated. However, in those that were, the composer frequently had a coloristic idea in mind. Contrast was the main objective, particularly to the Italians. It became stylish to contrast the violins with the viols, as evidenced by Stefano Landi's (c.1590-c.1655) "II San Alessio" (1632), Luigi Rossi's (1597-1653) "II Palazzo Incantato" (1642), and Marc' Antonio Cesti's (1623-1669) "II Pomo D'Oro" (1667). "II Pallazzo Incantato" uses two violins as well as a complete five-part group of viols.141 The softer toned viols accompany the vocal parts, allowing the voices to sing without forcing, while the fuller sounding violins are interspersed between vocal phrases. "II Pomo D'Oro" has been compared to Monteverdi's "Orfeo" in its use of tone-color for each scene. Like Monteverdi, Cesti chose cornetts, trombones, and organs, to depict Hades. Cesti saved the trumpets for martial scenes. The earthquake scene in Act IV has a dramatic impact because of its lack of any instrumental accompaniment.

Dynamic contrasts became more common. Echo effects were achieved by contrasting dynamics at short intervals as shown in the following examples. Notation for dynamics was not standardized, but varied according to composer. Landi's "Sinfonie" from "II San Alessio" uses the conventional "forte" and "piano":<sup>142</sup>



Lully (1632-1687) preferred the terms "fort" and "doux" as exemplified in his ballet "Xerxes" (1660):<sup>143</sup>

The Musical Prologue of his "Alceste" (1674) specifies "Hautbois fort; les Violons doux".<sup>144</sup> This would seem inevitable anyway, but the terms "fort" and "doux" are obviously dynamic indications since they are later applied to the trumpets.

Matthew Locke (c. 1630-1677) in "The Tempest" (1675) offers the first English example of dynamic indication. It occurs almost three-quarters of a century after "Sonata pian e forte", showing England's typical slowness in accepting European practices. Locke notates dynamic levels by "Soft", "Soft and slower by degrees", "Lowder by degrees", and even "Violent".<sup>145</sup>

The "Violent" section given above corresponds to "agitato" sections of Monteverdi's works, in that the repeated sixteenth notes would sound like a bowed tremolo.

No available scores from the middle of the century indicate muted instruments for dynamic effects. They were

revived only in the latter half of the century by Lully and Buxtehude.146

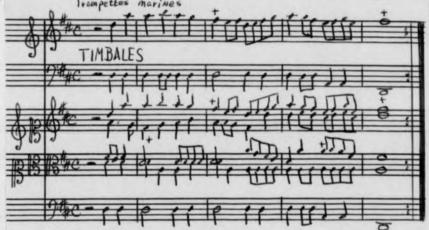
Neither was Monteverdi's device of pizzicato seized upon, but tremolo was more readily adopted. It was used by Landi, Merula, and Cesti. The latter composer's "I1 Pomo D'Oro" indicates what is doubtlessly supposed to be a tremolo, by a mysterious wavy line ~~~~ drawn over the 147

Instruments obsolete at that time were occasionally included in scores of the middle seventeenth century. The relatively little used timpani came to assume more importance. This was mainly due to Lully, who may have introduced the kettledrum into the theatre orchestra.<sup>148</sup> He used more timpani than any other composer, allowing one for each pitch since the drums had no adjustable pedal. "Xerxès" (1660) calls for three, <sup>149</sup> but "Cadmus" (1673) needs five:<sup>150</sup>



In "Xerxes" the timpani accompany strange instruments which Lully designated as "Trompettes marines". These

surely cannot be the medieval "Nuns' fiddles", or onestringed instruments played entirely on harmonics with fifty sympathetic strings vibrating inside their long wooden bodies! The range of the music suits seventeenth century trumpets, probably the instruments Lully intended: <sup>151</sup> Trumpettes marines

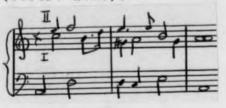


A horn-type instrument possibly resembling the hunting horn, or forerunner to the French horn, is first mentioned in the latter middle part of the century. This instrument actually belongs to the eighteenth century. extant The first/German opera "Seelewig" (1664) by Sigmund Theophilus Staden (1607-1655) includes an instrument called a "Thick Horn".<sup>152</sup> Lully's "Princesse d'Elide" (1664) calls for "trompes de chasse".<sup>153</sup> Carse mentions that there are other doubtful instances in which this type of instrument is used, but he does not cite examples.<sup>154</sup>

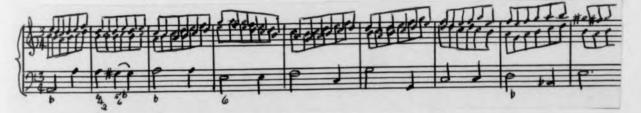
Few virtuoso demands were made on performers during the middle of the century. Up until this time, the greatest technical demands were those in "Orfeo" which have al-

ready been discussed. Ranges were gradually extended, causing more frequent clef changes within parts.<sup>155</sup> Cesti's "Il Pomo D'Oro" asks a little more of instruments by way of range than other scores of the period. But even these demands are so trivial as compared with "Orfeo's", that they are hardly worth quoting here.

Rarely was any emphasis placed on the first player in a section, making it unnecessary for the principal to have any greater technical facility than any of the other players. The musical lines of instruments crossed each other so frequently as to make the second player often more important than the first, as in this example of Carissimi's "Jonas" (before 1664):<sup>156</sup>



and Lully's "Alceste" (1674):157



Strangely enough, in Cesti's "La Dori" (1661), the voices are crossed in only one place — the first measure:<sup>158</sup>



Significance of these Developments in Creating

an Instrumental Style of Writing

One of the most important developments thus far in orchestration is that the instrumental music was becoming idiomatic to instruments and even to particular instruments. But though the instruments could easily play the vocal lines, voices would have found it much more difficult or even impossible to sing some of the instrumental lines such as this example from a Merula Canzona (1639):<sup>159</sup>



Voices could never be expected to sustain a tremolo for measures on end. Neither could they, with all their combinations of range, achieve nearly all of the contrasts in color afforded by the instruments. The confines of the vocal range were no longer observed by the instruments. In short, they had broken their ties with vocal music. Gone was the time for "Apt for voices or viols" writing: the instruments were recognized for themselves.

There was also differentiation between writing for strings and winds. Trumpets were reserved for fanfare type writing, flutes for pastoral scenes, and so on.

Writing for stringed instruments became idiomatic through the employment of greater ranges, dynamic shadings, bowed bremolo, pizzicato, and double stops. Now that composers had "discovered" the merits of the different instruments, orchestration was able to progress into a more refined art in the latter part of the seventeenth century.

Litter park of the contary, may particularly towards for electronic family, southinds and branders has an pat bien that rather moralically. But through Latte, mathemate, and Parcell they began appearing in ortholotrai more a standard bart of two's and three's of much type. Nomical scores show that the linguit were teaching sore in the standard part of the machestra. The scoring of the italian composer scretti those. This is to define the italian composer scretti those from a section form at composition have a standard of instruments (non-

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#### Chapter VI

ORCHESTRATION PRACTICES LEADING TO GREATER TECHNICAL PROFICIENCY OF THE PLAYERS AND THE BEGINNINGS OF A MORE STANDARDIZED ORCHESTRA

IN THE LATE SEVENTEENTH CENTURY

It has already been seen that the orchestra has shifted its main emphasis to strings, and toward the latter part of the century, more particularly towards the violin family. Woodwinds and brasses had as yet been used rather sporadically. But through Lully, Buxtehude, and Purcell they began appearing in orchestral scores in groups of two's and three's of each type. Musical scores show that the timpani were becoming more and more a standard part of the orchestra. The scoring of the Italian composer Corelli (1653-1713) led to a form of composition known as "concerto grosso" which entailed pitting a small group of instruments (the "Concertino") against a large group (the "Tutti").

Growth of New Devices from 01d Ones<sup>160</sup>

The association of instruments with certain scenes or characters continued, but became less stereotyped. Flutes no longer necessarily accompanied pastorale scenes, as shown in Blow's "Venus and Adonis" (c.1685)<sup>161</sup> where they are omitted from the pastorale scene, but used later in the score for a love scene. Purcell, in "Dioclesian" (1691)<sup>162</sup> has two flutes accompany the soprano solo, "Charon the Peaceful Shade", — far removed from the brass and regal used by Monteverdi to depict Charon! The brass instruments, so long associated with hell, were used by Buxtehude for quite a different purpose in his Wedding Cantata of 1672.<sup>163</sup>

A somewhat different use of character scoring was used in George Christoph Bach's Cantata, "Siehe, wie fein und lieblich" (1689), in which he used three gambas symbolically for the Trinity.<sup>164</sup>

Text painting became more common, possibly because texts lent themselves better to accompaniment than ever before. Purcell's solos "Sound the Trumpet" and "The Airy Violin" naturally suggest trumpet and violin accompaniment.<sup>165</sup> An example from Buxtehude's cantata "Mein Gemüth erfreuet sich" shows to what length composers did go to follow the text:<sup>166</sup>

Another amusing bit of text painting occurs in Purcell's "St. Cecilia's Day Ode" in which the sign, www, specifies the accompaniment to the words "the jarring, jarring seeds of matter".<sup>167</sup>

Dynamic markings became more common, particularly through Lully, Buxtehude, and Purcell. In Corelli's orchestral works, the instrumentation in concerto grosso style takes care of the dynamic contrasts. The use of muted trumpets was revived from the early part of the century, particularly by Buxtehude, who used not only muted trumpets, but muted clarini and trombones also.<sup>168</sup> Muted strings were first introduced in 1686 by Lully in "Armide",<sup>169</sup> and later used by Charpentier in his "Médée" (1693).<sup>170</sup> Buxtehude sometimes combined muted strings and muted brass.<sup>171</sup>

For further dynamic contrast, instruments were hidden off-stage to make them sound far away. Steffani's "Alarico" (1687) hides one section of instruments ("Trombe di dentro"),<sup>172</sup> while his "Niobe" calls for a hidden orchestra of viols "In scena nascosta".<sup>173</sup> Lully's directions in "Alceste" (1674), "Les voix et les instruments s'éloignent ensemble" probably means that the voices and instruments are to sound softly, as if off in the distance, rather than actually to sing and play from off-stage.<sup>174</sup>

Bowed tremolo became a commonly used device. It was notated by the word "Tremolo", a wavy line ..., or by f. Rapidly repeated notes were not always played as bowed tremolo, but were occasionally supposed to be played in one bow, as/this example from Steffani's "Niobe" (1688):175



The same effect is achieved in two of Bruhns' Cantatas by tying repeated notes thus: 176 In Steffani's "Niobe" the flute has to parallel the string's rapidly repeated notes by quickly tongued notes or possibly by

flutter-tonguing.177

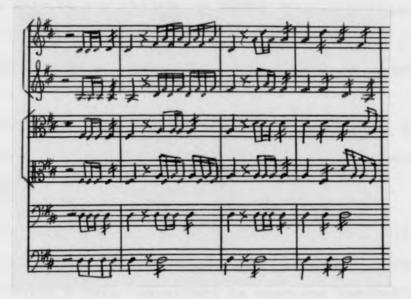


Double tonguing had been in use since the sixteenth century and was insisted upon for sixteenth notes.<sup>178</sup> Our modern method of "T-K-T-K" was considered too explosive, so that the softer "T-R-T-R" or "di-ri-di-ri" was used. Agricola says:<sup>179</sup>

> "If a piper you'd live to be learn you well your "diridiridee" which belongs to the notes small lest you look a fool before all."

A few more examples of fingered tremolo can be found. The earliest example is from Corelli's "Concerto Grosso" #7 (for date see footnote 180), in which finger tremolo occurs in the two upper violin parts:<sup>181</sup>

Pallavicino (1630-1688) in "Gerusalemme Liberata" (1688) combined bowed and fingered tremolo, and used the latter in three voices at once.<sup>182</sup>



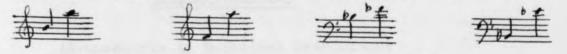
Pizzicato was still unrevived. Perhaps there were no battle scenes that called for the clashing of swords.

There are a number of examples of specifications for odd instruments or instruments not in common use in the late part of the century. Some of Lully's ballets include rustic instruments: bagpipes, castanets, guitars, and "tambours di Basque".<sup>183</sup> A march in "Isis" (1677) used musettes (bagpipes) in unison with drums and violins.<sup>184</sup> Another rustic instrument called for in Draghi's "Balletto di centauri. . ." and Steffani's "Niobe" (1688) was the piffero, a term designating one of a number of instruments

such as the shawm, fife, or bagpipe.<sup>185</sup> In Draghi's "Balletto" there are parts for three pifferari, each with different clefs and ranges:<sup>186</sup>

Here again, the exact instrument for each part could be chosen only by its ability to cover the range demanded by the part.

Curious instruments called "flatt trumpets" were used by Purcell in his music for Queen Mary's funeral. Today's authorities say that the "flatt trumpets" must in actuality have been high-pitched trombones. Their ranges were:<sup>187</sup>



The obsolescent tenor oboe is found in Purcell's "Dioclesian" (1691).<sup>188</sup> This is the first appearance (in scores which I have consulted) in over one hundred years, since the "Intermedi of 1589". Also the bass flute, soon to go out of common use, was found in two late works: Lully's "Le Triomphe de L'Amour" (1681) and Purcell's "St. Cecilia's Day Ode" (1692).

A tenor instrument called the "Viola da collo" was called for by Pallavicino in "Gerusalemme Liberata" (1687). Since "collo" is the Italian word for neck, it follows that the instrument was probably held under the chin, Possibly the instrument itself was not rare, but this name does not occur in any other scores.

Bukofzer mentions that Fux was partial to an instru-

ment known as the "chalumeaux", or forerunner to the modern clarinet. It is possible that the chalumeaux occurred before the end of the century, since the clarinet was supposed to have appeared in 1690 or earlier.<sup>190</sup>

The timpani continued to resume importance in orchestral scores. To be sure, timpani parts were not always written down, but the familiar tonic-dominant (usually in the key of C) was understood. One of the few scores using any other pattern was Charpentier's "Médée" (1693) which calls for tonic and leading tone in the key of D:<sup>191</sup>

# 

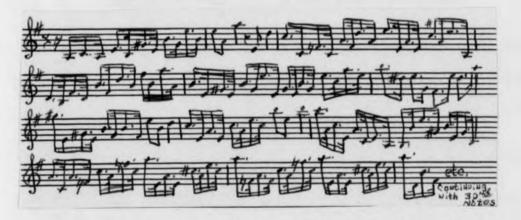
Advancements in Technical Proficiency and Their Effects

Demands on the players' technique continued to grow. The stringed instruments were given more florid parts than the winds, probably in an attempt to imitate the human voice. Such rapid note values as thirty-second and sixtyfourth notes were sometimes found, but their speed would, of course, depend on the tempo of the piece. Composers whose writings contain these melismatic string parts were Pallavicino (1630-1688), George Christoph Bach (1642-1697), Johann Michael Bach (1648-1694), Krieger (1649-1725), and Steffani (1654-1697). The following example from Pallavicino's "Gerusalemme Liberata" (1687) shows the use of sixty-fourth notes in imitation of vocal embellishments occurring at phrase endings.<sup>192</sup> The tempo marking is "allegro".

Each gamba (three in all) in turn had to be able to play the following theme from George Christoph Bach's "Siehe, wie fein und lieblich" (1689).<sup>193</sup>



The difficulty of playing this preceeding example would, of course, be dependent on tempo, which is not given. The following quotation from Krieger's "Wie bist du denn. . ." (c.1697) shows a combination of sixteenth and thirty-second notes and string crossings.<sup>194</sup>



The wind parts, though not nearly so melismatic as the string parts, were harder in different ways. Trumpets, (or clarini as they were called when playing in the extremely high register), were sometimes asked to play rapid notes of fanfare character. This example is from Johann Christoph Bach's "Es erhub sich. . .", and was naturally

played without valves. 195

Trumpet

The clarini were often expected to play for long stretches in the highest register of the instrument on open notes. Two similiar examples for clarini are from Buxtehude's Cantata, "Alleluja",<sup>196</sup> and an aria from one of Steffani's operas, respectively.<sup>197</sup>

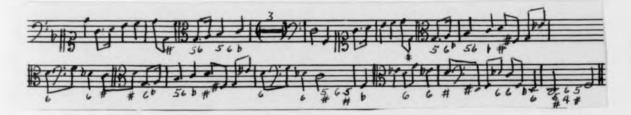


To make things difficult for the flutist, Pez, in his "Concerto Pastorale", apparently thought nothing of writing twenty-eight measures without a breathing point. His norm was about twenty-five measures, at which point he might give the poor flutist as much as a sixteenth note rest.<sup>198</sup>

The range of all instruments was extended, but particularly that of the strings, since there were no mechanical problems to limit the player's facility. A chronological list of range development can be found in Appendix III, but a few of the more extreme examples will be given here. In Johann Michael Bach's "Ach bleib bei uns, Herr Jesu Christ", the first and second violini are given and respectively. 199

In Johann Christoph Bach's "Es erhub sich. . .", two trumpets are given their second partial to produce, which is difficult to do unless the embouchure is extremely relaxed:

Clef changes within parts aided the players by avoiding leger lines. Treble instruments were expected to play in both treble (G) and soprano clef ( ). Parts ordinarily in alto, tenor, or bass clef, frequently changed to another one of these three clefs. The continuo part of Theile's Passion is particularly remarkable for its frequent clef changes:<sup>201</sup>



Multiple stops were becoming more common, particularly at cadences. Bruhn's "Paratum cor meum" contains quadruple and quintuple stops; the former occurring in the first gamba part, and the latter, adding only one note, in the second gamba part.<sup>202</sup>

Of a somewhat different nature are the double stops in Johann Christoph Back's "Mein Freudin".<sup>203</sup>

The double stops in the penultimate measure would sound like a bowed tremolo.

Improvisation is expected of players in Purcell's "Dioclesian". First the chorus sings a fortissimo passage on a C major chord, "Sound all your instruments!", after which the players are instructed to "Flourish with all instruments in C-fa-ut key."<sup>204</sup>

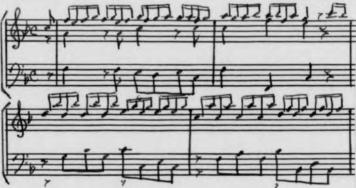
The number of keys in which instruments were expected to play was expanding. At one time, C and F were considered about the only keys having notes suitable for instruments. (A glance back at key signatures of musical examples quoted in this study will substantiate this.) Occasionally G or  $B^b$  were used. But by this time, composers had also adopted the keys of  $E^b$ , D, A, and E. This was due, in part, to improved mechanism in the wind instruments, which, by this time, had one or two keys. (See Appendix I)

Transposition must have been a matter of course with seventeenth century musicians, because most of the organs (at least in Germany) were tuned a tone too high, and in order to play with them, church instrumentalists had to play everything a step higher. With the development of more technically demanding music, there came a differentiation of players. First and second violin were no longer always used interchangeably, with their lines frequently crossing. Instead, the first violinist was expected to be more accomplished than the second, and was given harder and more exposed music to play. This was true of pairs of clarini, flutes, oboes, and other instruments. Even the bombarde (bassoon) was given a solo in Buxtehude's motet, "Benedicam Dominum."<sup>206</sup>

The desire for contrast, whether between different instruments or different dynamic levels, had continued to grow; and towards the last part of the century a form combining the two ideas had its beginning. This was the "concerto grosso" form, combining a small (hence softer) group of instruments, with a larger and louder group, the "ripieno" or "tutti". This form was brought to its height at the end of the seventeenth century by the two Italian composers, Corelli and Torelli, though compositions in this form were also written by Fischer, Pallavicino, Steffani, Heinrich and Johann Christoph Bach, and others. The "concertino" (or "favoriti", as it was called by the two Bachs), was a solo group which was designed for the better players. This group could be any combination of two or more instruments. Corelli stabalized his "concertino" by always using two violins and a 'cello and basso continuo<sup>207</sup> pitted against a string orchestra. According to Berger, two

players must have read from the same part while playing Torelli's "Concerti Grossi", because Torelli's manuscript disregarded the problem of page turns, possibly expecting one of the two on the part to turn while the other played.<sup>208</sup>

In Corelli's Concerto Grosso #6, the first violin receives so much more emphasis than any other member of the "concertino", that it actually foreshadows the solo concerto.<sup>209</sup>



Beginnings of a Standardized Orchestra

It is impossible to say that the late seventeenth century afforded any one standardized orchestra. For among such patterns as Lully's orchestra "Les Vingt-quatre Violons du Roi" with its formula of:<sup>210</sup>

6 4	1 <sup>st</sup> violins 2 <sup>nd</sup> violins	
4	3rd violins	
4	violas	
6	basses	
24	strings	

and Corelli's "concerto grosso" pattern, there were still such monstrosities as Freschi's "Berenice" (1680) with this stupendous setting:211 Chorus of 100 virgins Chorus of 100 soldiers Chorus of 100 horsemen in iron armor 40 cornets on horseback 6 mounted trumpeters 6 drummers 6 ensigns 6 sackbuts 6 flutes 12 minstrels playing Turkish and other instruments Etc.

A glance at the last few pages of Appendix III, however, will show that on the whole, the orchestra was more or less narrowing down to strings (in four or five parts), two flutes and/or oboes, sometimes a bassoon, two or three trumpets and/or cornetts, possibly two or three trombones, kettledrums, and basso continuo. Effective instrumental combinations had been worked out, such as two oboes and bassoon, <sup>212</sup> trio of flutes, cornetts and trombones, trumpets and drums, and trumpets and oboes.<sup>213</sup>

The orchestra and instrumental groups described above have come a long way from the assortment of instruments used in Striggio's "Psyche ed Amore", Gabrieli's "Sacred Symphonies", or Monteverdi's "Orfeo". The following section of "Conclusions" will attempt to summarize and evaluate the progress orchestration had made during the seventeenth century.

#### CONCLUSIONS

The reader will recall that in the Introduction several questions were asked which this paper proposed to answer, if at all possible.

How did late sixteenth century scoring practices contribute to later orchestral practices? They contributed very little, except for the practice of actually scoring particular instruments for particular musical lines. Late sixteenth century orchestras were large and composed of any instrumental groupings; seventeenth century orchestras were smaller and more refined, emphasizing the delicate stringed instruments. Seventeenth century orchestras were not influenced by sixteenth century instrumental ensembles nearly as much as they were influenced by the new style of composition — monody.

How adequately were the parts scored? This varied according to time, composer, type of composition, and locality. Towards the latter part of the seventeenth century compositions became more thoroughly orchestrated, but there were still works which were undoubtedly intended for certain instruments, though those instruments were not indicated in the score.

Were instruments used interchangeably? There is really little evidence from the scores, aside from a few which clearly give a choice of instruments to be used, or state verbally the composer's lack of concern over which instruments should play. As for scored works — it cannot be proved, but it is certain that instruments must have been used interchangeably.

Were instruments scored because they were readily available, or were they used in an artistic sense to produce a particular tone color? Both — composers made use of available instruments because importing instrumentalists was not the custom. Towns, churches, and even wealthy families owned collections of instruments from which composers could choose a variety of tone colors.

How much improvisation was expected of players? Here again, it is impossible to say, because scores rarely indicated improvisation. Of course the basso continuo had to be realized. Fanfares were no doubt expected of the brass instruments to summon people to their seats before plays. Appropriate embellishments were expected of players, though they were not always indicated in the music. When these embellishments were indicated, instrumentalists did not necessarily observe them, but were free to omit them or add others at their discretion. However, at least one orchestra (Lully's) discarded the idea of any embellishments except those written in the music, in order to avoid discrepancies in ensemble.

Did the seventeenth century orchestra show more tendencies toward virtuosity or toward simplicity in style

of playing? The main tendency was toward simplicity, though by the end of the century the technical demands were becoming greater. The technical demands could not reach beyond the capabilities of the instruments, however, and most of the instruments were in quite primitive condition.

In conclusion, several general observations should be made. First, the emphasis on wind instruments in the sixteenth century shifted to strings in the seventeenth century. One reason for this is that the new monodic style of writing needed a soft and well-blending accompaniment (afforded by strings) to prevent the vocalists' having to strain. Second, the growing feeling that music was an art rather than a complicated study in counterpoint led composers to choose the more expressive instruments capable of lovelier tone quality and better intonation hence the strings. The experimental spirit led composers to discover that strings were capable of more variability in tone color than the winds, through the devices of tremolo, pizzicato, double stops, etc. Third, music was becoming more idiomatic to particular instruments, with the aid of those devices just mentioned.

In summary, I would say that there seem to have been definite patterns of growth throughout those countries which were musically most important in the seventeenth

century. To be sure, the pattern was jagged at times, but it was one of progress in the works of individual composers, in the various countries, and indeed, in Europe as a whole.

#### FOOTNOTES

- Melchior Franck, "Two Pavans", from Newer Pavannen, Galliarden, und Intraden, (Wakefield, Mass., 1940), Robert D. King, ed., p. 368. (Bound manuscript.)
- 2. Adam Carse, <u>History of Orchestration</u>, (New York, 1925), p. 22.
- Giacomo Benvenuti, ed., "Andrea e Giovanni Gabrieli et la Musica Strumentale in San Marco", <u>Instituzione e</u> Monumenti dell'Arte Italiana, (Milano, 1931), I, 36.
- 4. Carse, loc. cit.
- 5. Note that in these phrases, instruments were called for in connection with voices, whose musical line they simply doubled, or sometimes played alone. The works were usually accompanied madrigals, so the vocal text was given throughout. Henry Prunières in <u>Monteverdi, His Life and Works</u>, (London, 1925), p.11, says that the madrigal was rarely sung a cappella after 1580, particularly at the Court of Mantua.
- Frederick Dorian, <u>History</u> of <u>Music</u> in <u>Performance</u>, (New York, 1942), p. 62.
- 7. It is necessary to know something about the instruments of the period to understand how they were chosen. Appendix I describes the main instruments in some detail (individual variants will be taken up as they occur in scores), but it must be remembered that for every instrument listed, there are about five or six others of varying sizes, in its family. The sixteenth century orchestra was a "broken" or "mixed" consort, including members of various families of instruments. A "whole" consort ("chest" of viols, "set" of recorders, "nest" of cornetts) included instruments all of one type and usually indicated chamber music.
- Carse, <u>op</u>. <u>cit</u>., p. 33. "Syntagma Musicum" was written in the early seventeenth century, but would doubtless apply to the late sixteenth century also.
- 9. Benvenuti, op. cit., I, 54.
- 10. Words correspond to voice parts.
- 11. Carse, op. cit., p. 22. The terms "band" and "orches-

tra " were used synonymously at this time.

- 12. Anthony Baines, <u>Woodwind</u> <u>Instruments</u> and <u>their</u> <u>His-</u> tory, (London, 1957), p. 239.
- 13. Willi Apel, Harvard Dictionary, (Cambridge, Mass., 1955), p. 357.
- 14. Baines, op. cit., p. 240.
- 15. Apel, op. cit., p. 129.
- 16. Families wealthy enough owned their own chests of different instruments for these get-togethers.
- 17. Baines, op. cit., pp. 239-40.
- 18. Divided choirs were used in many churches lacking lofty choir galleries. Curt Sachs, in <u>Rise of Music</u> in the <u>Ancient World East and West</u>, (New York, 1943), p. 59, points out that antiphonal singing can be traced back to Biblical times: "When the children of Israel had walked upon dry land in the midst of the sea and were saved out of the hand of the Egyptians, Moses himself struck up the holy tune to glorify the Lord, and all men joined the leader's voice, while the women responded antiphonally. . ."
- 19. Prunières, "Opera in Venice in the XVII<sup>th</sup> Century", Musical Quarterly, (January 1931), XVII, 1.
- 20. Praetorius mentions choir director's laying of planks across beams in various alcoves above their churches in order to obtain different sounding combinations. John A. Flower, <u>Giovanni Gabrieli's Sacrae Symphoniae</u> (1597), (University of Michigan doctoral thesis, 1955), I, 95.
- 21. Charles Burney, <u>A General History of Music</u>, (New York, written in 1789, no publication date), II, 271.
- 22. Ibid., p. 268.
- 23. See Appendix IV for differing accounts of instrumentation, too lengthy to be given here. Note that in both accounts there is a larger number of deepertoned wind instruments than of trebles.
- 24. Johann Pezel, "Sonata #1" from Original Tower Music for Ensemble of Five Brass Instruments, (New York, 1939), Robert D. King, ed., inside cover notes.

- Baines, op. cit., p. 241. 25.
- 26. Ibid., p. 220.
- Trumpets were almost always used. In the early seven-27. teenth century (possibly also in the late sixteenth century) at the court of the Danish King Christian of Kopenhagen, there were fifteen trumpeters (six mounted). Also, seventeen German trumpeters were imported from Dresden for coronation celebrations. Carse, The Orchestra in the XVIII Century, (New York, 1950), p. 42.
- Leo Schrade, Monteverdi, Creator of Modern Music, 28. (New York, 1950), pp 153-4.
- "Balet Comique de la Royne" was not actually a com-29. edy. "Comique" was the generic term for "dramatic". "Balet Comique" is the earliest ballet with extant music. Prunières in L'Opera Italien en France avant Lully points out that the work was Italian in origin. Baltasarini (as he is frequently called) first appeared in Paris in 1567. It is generally supposed that he merely compiled the work and did not compose it all; but at any rate, the Italian influence shows through it in his colorful scoring.
- Carse, History of Orchestration, p. 24. 30.
- Ibid., p. 25. 31.
- Ibid., p. 29. 32.
- Benvenuti, op. cit., p. 113. 33.
- Dr. Beck is on the New York Public Library staff. 34. Unfortunately, his book on Morley's "Consort Lessons" will not be published for another two or three months. Recently I was fortunate in talking with his wife, Blanche Winogron (Mrs. Sidney Beck) - who was in Greensboro as a member of the Rococo Ensemble who insisted that the Gabrieli work was unscored and that the Morley work (of two years later), was definitely scored with most of the parts being unplayable by any other instrument due to their tablature notation. This is not in agreement with my findings, but unfortunately, I am not able to get a clear picture since the Beck book is as yet unavailable.
- Morrison Comegys Boyd, Elizabethan Music and Musical 35. Criticism, (Philadelphia, 1940), p. 163.

- 36. Ibid.
- 37. Dr. Beck has found the two missing parts and gathered the scattered parts which will appear in his forthcoming book.
- 38. Boyd, op. cit., p. 164.
- 39. Part books for "cantus", "altus", "tenor", and "bassus"; then "quintus" through "duodecimus" were printed. When there were more than twelve parts, two parts for a single motet would be printed in the same part book and indicated "1" and "2" ("duodecimus 1" and "duodecimus 2") so that two players read from the same book.
- 40. In the instrumental collection c.1610 were: 8 violins, small viols, 2 tenor viols, 3 large viols, 2 cornetts, 1 bassoon, 3 trombones, and 4 theorboes. Hans F. Redlich, Claudio Monteverdi, <u>His Life and Works</u>, (0xford, 1952), p. 179. There were doubtless some flutes and shawms also, because Monteverdi used them in his "Vespers of 1610". There were also two permanent organs and a little organ "del terzo grado". (Prunières, "Opera in Venice in the XVII<sup>th</sup> Century", XVII, 4.)
- 41. Several amusing accounts have been given about the singers (about thirty) and instrumentalists (about twenty) at St. Marks. It seems that most of the singers also played some musical instrument, and the haughty instrumentalists were always quarreling with the singers, complaining that they should join the instrumentalists. The singers protested that they played only in church, not at balls or public places like the fiddlers. The instrumentalists even tried to get the organists to pay them tribute, until finally the Procuratori had to forbid them to molest singers or organists, or play instruments for hire other than in the church. Ibid., pp.3-4.
- 42. Carse, History of Orchestration, p. 26.
- 43. <u>Ibid.</u>, p. 25. Carse says the parts marked "violini" were for violas because they were in alto clef and went too low for treble violins. On the true violin, no notes above third position <u>et(f)</u> were called

for, and the G string was not used, eliminating the notes below brieli, the the voice.

- 44. <u>Ibid.</u>, p. 74. If so, the words could possibly have been gotten from other vocal parts, except that the parts were so contrapuntal that the words could not be understood anyway. It is interesting to note that the music is remarkable for its accuracy, but that the text is quite erroneous with inconsistent spelling, punctuation, captilization, and word placement.
- 45. Davidson and Apel, <u>Historical Anthology</u> of <u>Music</u>, (Cambridge, Mass., 1957), I, 234.
- 46. Ibid., Davidson and Apel classify "In Ecclestis" as a late work.
- 47. Manfred F. Bukofzer, <u>Music of the Baroque Era</u>, (New York, 1947), p. 24.
- 48. Hugo Leichtentritt, Music History and Ideas, (Cambridge, Mass., 1938), p. 84.
- 49. I am including in "early" seventeenth century, works up until c.1630. In the case of composers whose works span from 1600 beyond 1630, I am discussing these later works also, rather than break the continuity of the composer's style by waiting to discuss them in a later chapter.
- 50. The Camerata met at the residence of Count Bardi to discuss different trends of the arts, and review works by members of the group, which included: J. Peri (composer and singer), Giulio Caccini (composer and singing teacher), Galilei (composer and father of the astronomer Galileo), Gagliano (composer), Cavalieri (composer and Roman citizen), and Rinuccini (poet).
- 51. According to this, "monody" is a misnomer, since the two parts are both important. The melodic line was indispensable, but the bass part was important enough to be doubled always. It seems that a name reflecting the duality of the parts should have been chosen.
- 52. Example taken from the actual manuscript on display in the Library of Congress, Washington, D.C.
- 53. In the Preface, Peri lists his instruments by giving credit to their players: "Behind the scenes, music was played by gentlemen illustrious by noble blood and excellence in music: Signor Jacopo Corsi, whom

I have so frequently named, played a gravicembalo; Signor Don Grazia Montalvo, a theorbo; Messer Giovan Battista del Violino, a lire grande; and Messer Giovanni Lapi, a large lute." (Oliver Strunk, Source Readings in Music History, (New York, 1950), p. 375.)

- 54. I.e., harpsichord.
- 55. Large bowed lyre, a chord instrument with as many as twenty-four strings. (Donald J. Grout, <u>Short History</u> of <u>Opera</u>, (New York, 1947), I, 52.) A viola da gamba, according to <u>Groves Dictionary</u> of <u>Music and Musicians</u>, (London, 1954), VI, 198.
- 56. "Anima e Corpo" is actually a sacred drama with allegorical personifications of Time, Life, the World, Pleasure, the Intellect, the Soul, and the Body. (Groves, op. cit., II, 127.) The reason for its being called an Oratorio was that it was first performed at the Oratorio della Vallicella, St. Philip Neri's Church in Rome. Its name, in this case, designated a locality, just as sonatas "da chiesa" and "da camera" designated localities — "church" and "chamber" respectively.
- 57. Ibid., also, Burney, op. cit., p. 565.
- 58. "And if a 'violin' should play the principal part it would have a very good effect."
- 59. Redlich, op. cit., p. 96.
- 60. According to the <u>Aufführungspraxis</u> of the seventeenth century, instrumentalists were often expected to play more than one instrument in a performance. Actors were even expected to play instruments occasionally. This would minimize the number of instruments able to play at the same time, since each player could choose only one instrument. Therefore the tutti passages might not have been played by all the available instruments.
- 61. Sources differ on the number of flutes in Cavalieri's "Animo e Corpo". C. Hubert H. Parry in Oxford History of Music, (London, New York, 1938) II, 40, Hists two flutes. Groves, op. cit., II, 127, mentions two flutes and "Tible all'antica", while Burney, loc. cit., lists "Due flauti; o vero due tible all'antica". The "tible" is confusing because it refers to a doublereed instrument of the oboe family. The flutes were actually recorders, according to Doris Silbert, "Francesca Caccini called 'La Cecchina'", <u>Musical Quarterly</u>,

### January 1946), XXXII, 60.

- Jacopo Peri, "Le Musiche Sopra L'Euridice", (Rome, 1934), Enrico Dufflocq, ed., facsimile of original, p. 11.
- 63. Claudio Monteverdi, "L'Orfeo, Favola in Musica", <u>Tutte</u> <u>Le Opere</u>, (Venice, 1938), G. Francesco Malipiero, ed., Frontispiece. There were about thirty-nine instruments, according to the facsimile, but Monteverdi evidently wants two "flutes alla Vigesima Seconda" (though he lists only one) since he has two musical lines in thirds scored for flutes. (See p. 37).

The "Arpa doppia" is another problem, since the double harp was not invented until the beginning of the nineteenth century. According to the score, its range included four octaves, and extended into the contra octave, sometimes written as GG: "

This could be the reason for the nomenclature, since the term, "doppia", was used in England around this time (though referring to single and double virginals). Prunières in <u>Monteverdi</u> seems to interpret "arpe doppie" as two harps, from the use in his sentence "Two cornetti, succeeded by two harps ("arpe doppie") replace the violins in the succeeding stanzas. . . ."

GG

- 64. Monteverdi went a step further than any other composer in writing an overture for "Orfeo", which he called a "Toccata". It was more or less a fanfare, the type played at every play or opera to signal quiet in the audience. However, Monteverdi did not leave his overture to the improvisation of the players. but wrote it out in full.
- 65. Parry, op. cit., p. 51. In fact, all the parts could possibly be played on an 8' trumpet.
- 66. Carse, History of Orchestration, pp.45-6. See note 2.
- 67. Monteverdi, op. cit., XI, 41.
- G. Francesco Malipiero, "Claudio Monteverdi of Cremona", <u>Musical Quarterly</u>, (July 1932), XVIII, 392.
- 69. Ibid., p. 156. See Appendix IV for instruments used.
- 70. Ibid., pp. 105-6.
- 71. Apel, op. cit., p. 520; Prunière's Monteverdi, p. 80.

- 72. Redlich, op. cit., opposite p. 110.
- 73. Silbert, <u>loc. cit.</u> Actually, G. Caccini's "Euridice" was supposedly unscored and I have found no other references to the three flutes. There are quite a number of references to Thyrsis's song accompanied by three flutes in Peri's "Euridice", however. See p. 26 for an example of the facsimile of the F. Caccini flute trio.
- 74. G. Gabrieli used six trombones in "Suscipe Clementissme" from the "Sacred Symphonies II". They were used antiphonally with a six-voiced chorus. Bukofzer, loc. cit., suggests that they were probably placed in various lofts of the church. It is undoubtedly from his teacher, Gabrieli, that Monteverdi got the idea of using several trombones.
- 75. Schrade, op. cit., p. 245.
- 76. Ibid., p. 303.
- 77. Until quite recently, the aulos was thought to have been a flute-type instrument, so members of the Camerata were justified in scoring for it. However, it is now known to have been a double-reed type instrument, always consisting of two pipes. Apel, <u>op</u>. <u>cit</u>., p. 62.
- 78. The practice of concealing the orchestra off-stage was continued into the latter half of the seventeenth century. See Appendix III, "Orchestra's Placement".
- 79. Silbert, op. cit., p. 59.
- 80. Monteverdi, "Libro Ottavo. Madrigali Guerrieri et Amorosi", op. cit., vol. VIII.
- 81. Carse, History of Orchestration, p. 47.
- 82. Dorian, op. cit., p. 68, says that every scene was accompanied by instruments best suited to its particular character, with only a few uses of tutti.
- 83. See p. 21 or Appendix IV for a list of "Orfeo's" instrumentation.
- 84. Harold Gleason, <u>Music Literature Outlines</u>, (New York, 1950), series II, pp. II-15 and II-25. (Examples from p. II-25.) and Maurice Winton Riley, "The Teaching of Bowed Instruments from 1511 to 1756",

(University of Michigan doctoral thesis, 1954), p. 242, (Available on microfilm.)

- 85. Burney, op. cit., p. 435.
- 86. Ibid., p. 565.
- 87. Malipiero, loc. cit.
- Paolo Quagliati, "La Sfera Armoniosa" and "Il Carro 88. di Fedeltà D'Amore" from Smith College Archives, (Northampton, Mass., 1957), Vernon Gotwals and Philip Keppler, eds., XIII, 70. (Facsimile of original score.) "Il Carro" toured on an oxcart in the carnival of 1606 with five singers and five instrumentalists ("the exact number which an ambulant cart could contain" - according to Burney). The cart was comparable to our modern mechanized floats, from which masked actors performed in the pre-Lenten festivities. Burney translated the following quotation from Della Valle's treatise which first appeared in Vol. II of the works of Gio. Battista Doni, Florence, 1763: ". . . on which account it pleased extremely, as was manifest from the prodigious concourse of people it drew after it, who, so far from being tired, heard it performed five or six several times; there were some even who continued to follow our cart to ten or twelve different places where it stopt, and who never quitted us as long as we remained in the street, which was from four o'clock in the evening till after midnight."
- 89. See Appendix II for a chart of "Orfeo's" scoring.
- 90. Monteverdi, "Orfeo", <u>I Classica</u> <u>della Musica</u> <u>Ital-</u> <u>iani</u>, (Milano, 1942), <u>Giacomo Benvenuti</u>, ed., <u>IX</u>, 69.
- 91. Apel, op. cit., p. 252.
- 92. Monteverdi, Tutte le Opere, II, 41.
- 93. Ibid., p. 153.
- 94. Bukofzer, op. cit., p. 377.
- 95. Riley, op. cit., p. 365.
- 96. Carse, <u>History of Orchestration</u>, p. 50. Malipiero, "Claudio Monteverdi of Cremona", <u>loc. cit</u>.
- 97. Donati example taken from Carse, <u>History of Orches</u>tration, p. 29. Quagliati example taken from

Quagliati, op. cit., p. 34.

- 98. Gleason, loc. cit.
- 99. Riley, op. cit., p. 42.
- 100. Ibid., p. 361.
- 101. Ibid.
- 102. "Here leave the bow and strike the chord with two fingers.", Davidson and Apel, op. cit., II, 12.
- 103. Actually most of the instruments used are now obsolete, but I use the term in reference to instruments obsolete or in very little use during the early seventeenth century.
- 104. See footnote 58.
- 105. Burney, op. cit., p. 565.
- 106. Given in Arnold Schering, <u>Geschichte</u> <u>der Musik in</u> <u>Beispielen</u>, (Leipzig, 1931), p. 186; <u>comments on</u> p. 17. I have been unable to determine whether or not this is a portion of a larger work.
- 107. "Die Flöten sind vorgeschrieben, können aber laut Beischrift auch durch 'sordelline' ersetzt werden." Ibid., p. 17. The "sordelline" is a bagpipe type instrument also known as the Italian musette.
- 108. Redlich, op. cit., pp. 127-8.
- 109. Carse, <u>History of Orchestration</u>, p. 46; Dorian, <u>op</u>. <u>cit.</u>, p. 66.
- 110. Instrumental parts quoted from Monteverdi, <u>Tutte le</u> Opere, II, 93, 95, and 98, respectively.
- 111. Ibid., pp. 47-8.
- 112. Monteverdi, Tutte le Opere, II, 50.
- 113. Bukofzer, op. cit., p. 53.
- 114. I mention this because he was careful in "Possente Spirto" to write out a plain vocal part for Orfeo as well as a highly embellished one. Monteverdi, Tutte le Opere, II, 64.

- scolte D0 ---

- 115. "In the concerted pieces with the violin the performer must play exactly what is written, ornamenting it with trills and without flourishes." Quagliati, op. cit., one page before p. 1.
- 116. See Appendix II.
- 117. "Sound ideal" characteristic "sonority" of the period. Apel, op. cit., p. 702.
- 118. Also the orchestras for "Arianna" (1608) and "Vespers" (1610).
- 119. Gleason, op. cit., p. III-29.
- 120. Taken from various combinations throughout Schutz's Complete Works. Basso continuo is not listed but accompanies each of the groups given. The basso continuo practice was not influenced by Gabrieli, but by members of the Camerata or by Monteverdi.
- 121. Heinrich Schutz, Sämmtliche Werke, "Psalms of David", (Leipzig, 1885), Philip Spitta, ed., III, 34.
- 122. Ibid., p. 41.
- 123. "Trombette (e Timpani)", Ibid., p. 182.
- 124. Groves, op. cit., V, 646. Bukofzer, op. cit., says 1629 for "Sacred Symphonies I".
- 125. Carse, History of Orchestration, p. 57.
- 126. Schutz, op. cit., "Sacred Symphonies III", Guido Adler, ed., VII, 77. The words in quotation marks are italicized in the score, but I am assuming that they were in the original score.
- 127. Schutz, op. cit., "Die Evangelischen Historien", I, 6.
- 128. Groves, op. cit., V, 647.
- 129. Ibid., p. 649. However, this example taken from Schering, op. cit., p. 230, is scored for "2 violen".
- 130. Bukofzer, op. cit., p. 410.
- 131. Schutz, op. cit., VII, 183.
- 132. Schutz, op. cit., "Deutsche Concerten", XIV, 43.
- 133. Schutz, op. cit., II, 46.

- 134. Schutz, op. cit., VII, 58.
- 135. Christopher Strauss, "Missa Pro Defunctis", <u>Denkmäler</u> <u>der Tonkunst in Österreich</u> (Wein, 1896), Guido Adler, <u>ed.</u>, LIX, 1. (Usual abbreviation for this series is DTU.)
- 136. Leichtentritt, op. cit., p. 118.
- 137. Example on following page is from DTO, X, 10.
- 138. Leichtentritt, loc. cit.
- 139. Ibid.
- 140. I have included in this discussion works written before the year 1675.
- 141. Carse, History of Orchestration, p. 56.
- 142. Ibid., pp. 53-4.
- 143. Jean-Baptiste Lully, Ouvres Completes, "Les Ballets", (Paris, 1932) Prunières, ed., II, 156.
- 144. Ibid., "Les Operas", II, 26.
- 145. Parry, op. cit., pp.288-9.
- 146. Buxtehude's Wedding Cantata of 1672 is an exception. However, it will be discussed with the rest of Buxtehude's works in the section dealing with the latter half of the century.
- 147. Carse, op. cit., pp. 62-3.
- 148. Nathan Broder in a lecture (October 27, 1958) at the University of North Carolina made this statement. Drums had been used by composers since 1565 (Striggio). Monteverdi used muffled drums in "I1 Ballo delle Ingrate" in 1608. These drums probably were not required to have a definite pitch. Benevoli used four kettledrums in his Mass, but this was for a performance in the Salzburg Cathedral, not in a theatre.
- 149. Lully, op. cit., II, 162.
- 150. Ibid., I, 146-7. The score is not very clear as to which instrument plays what, but assuming that the timpani ("tymballes") play the lowest line, they must play five notes.

#### 151. Ibid., II, 162.

- 152. Information obtained from lecture notes of Nathan Broder taken by Joan Moser, University of North Carolina, during the fall of 1958 in Dr. Broder's course on the History of Orchestration.
- 153. Carse, History of Orchestration, p. 20.
- 154. Ibid.
- 155. That is, if modern scores have the same clefs as the original ones.
- 156. Davidson and Apel, op. cit., II, 46.
- 157. Ibid., p. 84.
- 158. Parry, op. cit., p. 174.
- 159. Ibid., p. 314.
- 160. A chronological listing of these devices can be found in Appendix III which is a Thesaurus of Orchestral Devices.
- 161. John Blow, "Venus and Adonis", (Monaco, 1949), Anthony Lewis, ed., (observation).
- Henry Purcell, Works, (London, 1900), Sir Frederick J. Bridge and John Pointer, eds., IX, 17.
- 163. Nathan Broder lecture, October 27, 1958.
- 164. Karl Geiringer, Music of the Bach Family, (New York, 1954), pp.23-4 and 84-5. The number three is important throughout this cantata. The title page is inscribed in water colors with symbolic pictures: a three-leafed clover representing flourishing concord, a triangle with three rings to denote sweetness, and a padlock uniting three chains to emphasize firmness. There are three solo voices and the three measure theme is introduced three times by each voice.
- 165. "Sound the Trumpet", male alto solo from "Gloucester's Birthday Ode", Purcell, op. cit., (1891, Wm. H. Cummings, ed.) IV, 24. "The Airy Violin", alto solo from "St. Cecilia's Day Ode", <u>ibid</u>., (1891, J.A. Fuller Maitland, ed.), VIII, 57.

166. Andie Pirro, Dietrich Buxtehude, (Paris, 1913), p. 264.

- 167. Purcell, ibid., VIII, 35.
- 168. Cantata, "Ihr lieben Christen, freuet. ...", to give one example. Denkmäler Deutscher Tonkunst, (Leipzig, 1903), Max Sieffert, ed., XIV, 129. (This series usually abbreviated as DdT.)
- 169. Grout, op. cit., I, 122-3; Parry, op. cit., p. 238.
- 170. Parry, op. cit., p. 250.
- 171. Walter E. Buszin, "Dietrich Buxtehude on the Tercentenary of His Birth", <u>Musical</u> <u>Quarterly</u>, (October, 1937), XXIII, 465.
- 172. Denkmäler der Tonkunst in Bayern, (Leipzig, 1911), Hugo Riemann, ed., II, #2, p. 72. (This series usually abbreviated as DTB.)
- 173. Ibid., (1912) IXX, part 2, p. 35.
- 174. Lully, op. cit., "Les Operas", II, 222.
- 175. DTB, op. cit., (1912), p. 62.
- 176. "Die Zeit meines. ..", Landschaftsdenkmale der Musik, (1937), Herman Zinck, ed., I, 14. "O Werter heil' ger Geist", <u>ibid</u>., vol. II, (observation).
- 177. DTB, op. cit., (1912), p. 53.
- 178. Baines, <u>op</u>. <u>cit</u>., p. 43. An estimated tempo of the sixteenth century quarter note is J = 85, requiring double-tonguing to be done at a slower speed than now.
- 179. Ibid., p. 42.
- 180. The first definite publishing date of these concerti grossi is 1714, but according to Corelli's contemporary, George Muffat, they were played in Rome as early as 1682. An even earlier publishing date is 1677; however, this date is questionable. Bukofzer, <u>op. cit.</u>, pp.222-3.
- 181. Mario Rinaldi, <u>Arcangelo Corelli</u>, (Milano, 1953), p. 307.
- 182. DdT, LV, 64.
- 183. List taken from Nathan Broder lecture, October 27, 1958.

- 184. Carse, op. cit., p. 77.
- 185. Apel, op. cit., p. 584.
- 186. DTO, LV-LXIV, 33.
- 187. Purcell, "Funeral Music for Queen Mary", (Wakefield, Mass., 1940), p. 3. Edited by Robert King for two B<sup>b</sup> cornets, trombone, and baritone. This edition is transposed up a fourth, but I have lowered it and also transposed the cornet parts. My examples should now be in the original key.
- 188. Groves, op. cit., VI, 999.
- 189. At least the name is unique in my findings.
- 190. See Appendix I.
- 191. Parry, op. cit., p. 251.
- 192. DdT, LV, 187,
- 193. Reichsdenkmale Deutscher Musick, (Leipzig, 1935), Max Schneider, ed., II, 22-3.
- 194. DTB, VI, part 1, pp. 136-7.
- 195. Geiringer, op. cit., p. 31.
- 196. DdT, IV, 172.
- 197. Grout, op. cit., p. 113.
- 198. DTB, vols. XXVII-XXVIII. (observation.)
- 199. Reichsdenkmale Deutscher Musick, II, 64.
- 200. Geiringer, op. cit., p. 49.
- 201. DdT, XVII, 129.
- 202. Landschaftsdenkmale der Musik, I, 126 and 101, respectively.
- 203. Reichsdenkmale Deutscher Musick, II, 135.
- 204. Purcell, op. cit., IX, 24.
- 205. Buszin, op. cit., p. 470.
- 206. Pirro, op. cit., p. 238.

- 207. Stewart Deas, "Arcan gelo Corelli", Music and Letters, (January 1953), XXXIV, 9; and Parry, op. cit., p.356.
- 208. Jean Berger, "Notes on some Seventeenth Century Compositions for Trumpet and Strings in Bologna", <u>Mu-</u> sical Quarterly, (July 1951), XXXVII. p.354.
- 209. Bukofzer, op. cit., p. 226.
- 210. <u>Ibid.</u>, p. 146; and Prunières, "Lully and the Academie de Musique et de Danse", <u>Musical Quarterly</u>, (October 1936), XXII, 544-5 says about fifty musicians. This would include the wind and percussion players.
- 211. Groves, op. cit., VI, 204.
- 212. Originated by Lully, according to Nathan Broderslecture, October 27, 1958.
- 213. Especially favored by Torelli, who used them in quick, imitative dialogue.

#### Appendix I

DESCRIPTIONS OF INSTRUMENTS

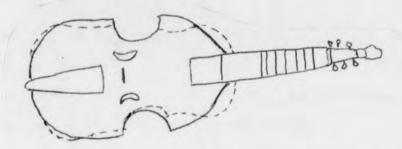
This necessarily brief description of the various instruments will attempt to point out the difference in sound produced in the seventeenth century as compared with present-day instruments and their sound. More detailed descriptions can be found in Sachs' <u>History of Musical</u> <u>Instruments</u>, Geiringer, <u>Musical Instruments</u>, Carse, <u>Musical Wind Instruments</u>, and Baines, <u>Woodwind Instruments</u> <u>and their History</u>; not to mention the two primary sources of the period: Praetorius, <u>Syntagma Musicum</u>, Vol. II, and Mersenne's <u>Harmonie Universelle</u>.\*

Stringed Instruments

Bowed string instruments of the late sixteenth and seventeenth centuries can usually be classified as belonging to one of the following families: viola da gamba, viola da braccio, or violin.

The violas da gamba (also called "viols" or "gambas") were played on the leg (hence the name "gamba" or "leg"). Their six strings were tuned in fourths and thirds. Thinner wood, a flat back, shorter neck, lower bridge and fingerboard, finer strings, and smaller sound holes all contributed to the gamba's smaller and more delicate sound than members of the violin family.

\*Tracings are taken from Carse, <u>History of Orchestration</u>, and Apel's Harvard <u>Dictionary</u>.



Their light bows and method of underhanded bowing gave forth a less weighted tone. The tone quality was unique in that each note was made to sound like an open string by the use of gut frets. Vibrato, so common to the violin family, was used only for ornamentation by the viols.

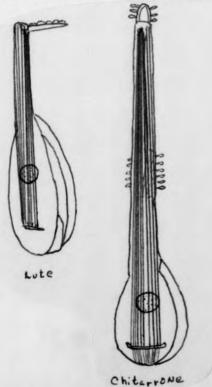
The violas da braccio (also called "violas" or "Bratschen")were held on the arm against the chest. This manner of holding allowed for a wider-waisted instrument, because nothing hindered the bowing (such as the knees in gamba playing). Also, there were only four strings tuned in fifths like the modern violin. A bulging back, round shoulders, "F" sound holes, and thick strings, caused violas da braccio to have a fuller tone than the viols, and foreshadow the modern violin tone.

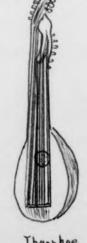


The violin family was not common until the latter part of the century, though the violin, viola, and tello had been completed in almost their present form by the

middle of the sixteenth century. These early violins were somewhat smaller and less reinforced than modern ones. This cut down on their volume, which, nevertheless, was louder and more expressive than the viols.

The members of the plucked stringed groups include the lutes and other closely related types: the theorboe and chitarrone. The number of strings varied, but eleven strings in six courses (or groups of two in octave or unison doublings) was usual. They were tuned in fourths and thirds. Drones and sympathetic strings were frequently added. The chordal style of playing these instruments made them valuable as basso continuo instruments. Most of these plucked instruments had pear-shaped bodies with highly rounded backs and elaborately carved rose holes. Their tone, too, was softer than the present day guitar with its flat back and open rose hole.





Theorboe

#### Woodwind Instruments

The woodwinds, like the viols, were made in families. Their mechanism was in a very rudimentary stage with only one key being common. Cross fingering for accidentals was necessary, but caused such poor intonation on these old instruments that it was deplorable to trained ears. Scarlatti is known to have said, "My son, you know that I hate wind instruments, they are never in tune." (Carse, <u>The</u> <u>Orchestra in the XVIII Century</u>, p. 161.)

The highest members were the flutes which came in two types: fipple and transverse. The fipple flutes, or recorders, had seven finger-holes and one thumb-hole, permitting a range of over two octaves. Its tone quality was less penetrating than the transverse flute, as well as being less colorful, and harder to control.

## 

The transverse, or German flute, was made of wood in contrast to present-day metal ones. It obtained only one key by the end of the seventeenth century, and its faulty cross-fingerings caused Hawkins to remark even as late as the eighteenth century: The German flute "still retains some degree of estimation among gentlemen whose ears are not nice enough to inform them that it is never in tune." (Carse, <u>Orchestra in the XVIII Century</u>. p.161.)

The oboe (or shawm, in its more rudimentary stages), was made in three sizes, each having six finger-holes and a little finger-hole. The latter was bored on both sides of the instrument to accomodate either right- or left-handed players. The unused hole was filled with wax. In the event of a key, a double "wing" was put on which could be depressed by either hand.

The seventeenth century oboe was played with a coarser reed than that used now, causing it to emit a louder, less controlled tone.

The bassoon (bombard, dulcian), was distinguishable from the tenor oboe by its doubled back tube. Its range covered two and one-half octaves, facilitated by three keys added by the end of the seventeenth century.

1 ... ...

The clarinet was supposedly invented by Denner in 1690 according to Carse. Farmer, in <u>Turkish Instruments</u> of <u>Music in the Seventeenth Century</u> (1937) mentions an earlier "clarionet" of horn made in England and played by monks at the Holy Sepulchre. At any rate, no similiar instrument was called for in seventeenth century scores.

#### Brass Instruments

Paralleling the yet primitive status of woodwind instruments, the brass instruments had no valves, and the production of most notes, other than the harmonic series, was difficult or even impossible.

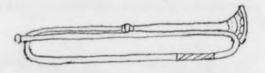
The highest treble member of the brass family, or cornet, was actually not made of brass, but was a wooden tube into which finger-holes were bored. Its classification as a brass instrument was due to its trumpet-like mouthpiece. Cornetts were of two shapes: straight ("cornetti muti") or curved. There were at least three sizes, each with body and mouthpiece joined as one piece. A leather coating prevented leakage of air on curved cornetts with glued seams.

. . . 00

The serpent, or bass member of the cornetfamily, was the shape of a large "S". It is hard to imagine the sound of this elephantine instrument, with its irregularly bored finger-holes- supposedly the forerunner to the tuba.

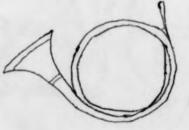


The trumpet had a tube length of seven or eight feet, normally tuned in D or C. Crooks facilitated playing in different keys. The thick walls of the trumpet caused it to have a less penetrating sound than today's instruments. The rather muffled quality was further enhanced by a bell with very little expansion. Mutes were used, but they raised the pitch a tone higher.

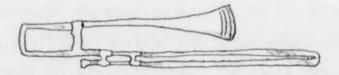


Carse (in "Chromatic Trumpets of the Renaissance", <u>Musical Quarterly</u>, XXXVI #1) mentions a slide trumpet capable of playing all chromatics. However, none are specified in seventeenth century scores which I have consulted.

The hunting horn was very rarely called for. It consisted of a plain pipe coiled in a circle large enough to be carried over one's shoulder. Lack of valves or crooks necessitated the use of hand-in-bell techniques for humouring out-of-tune mtes and notes not in the harmonic series.

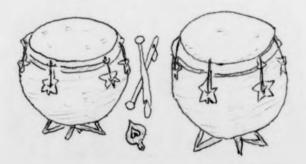


The most important bass brass instrument was the trombone, which was mechanically one of the most perfect instruments of the Baroque period. According to Praetorius, there were four different sizes. Mersenne describes the positions of the slide which are still used today. Like the trumpet, thick walls and a small bell gave the trombone a more mellow timbre, suitable for accompanying cornetts and trumpets.



#### Percussion Instruments

The most important percussion instruments and the only ones ever definitely indicated were the timpani or kettledrums. Illustrations in the works of Virdung, Praetorius, and Mersenne show these drums in practically their present-day form, equipped with tuning screws. Pedals were as yet unknown.



#### Keyboard Instruments

Highly important to the Baroque was the harpsichord with its strings plucked with jacks and giving forth a much more tinkling sound than the modern piano, with its hammer-struck keys. The jacks were of leather and of quill, giving two distinctly different tone colors. Each set was single strung, giving the characteristic quiet sound of early Baroque instruments. The color of the keys was usually the reverse of what is found today on the piano, and unfortunately for harpsichord players, the hand span was not standardized. The range was from three to four octaves.

The early Baroque organ had wooden flute pipes, giving it a light transparent color. The timbres of different stops were sharp and contrasting, but not harsh, because the wind pressure was low.

The tiny regal had reed pipes and could be conveniently transported because it could be folded.

### Appendix II

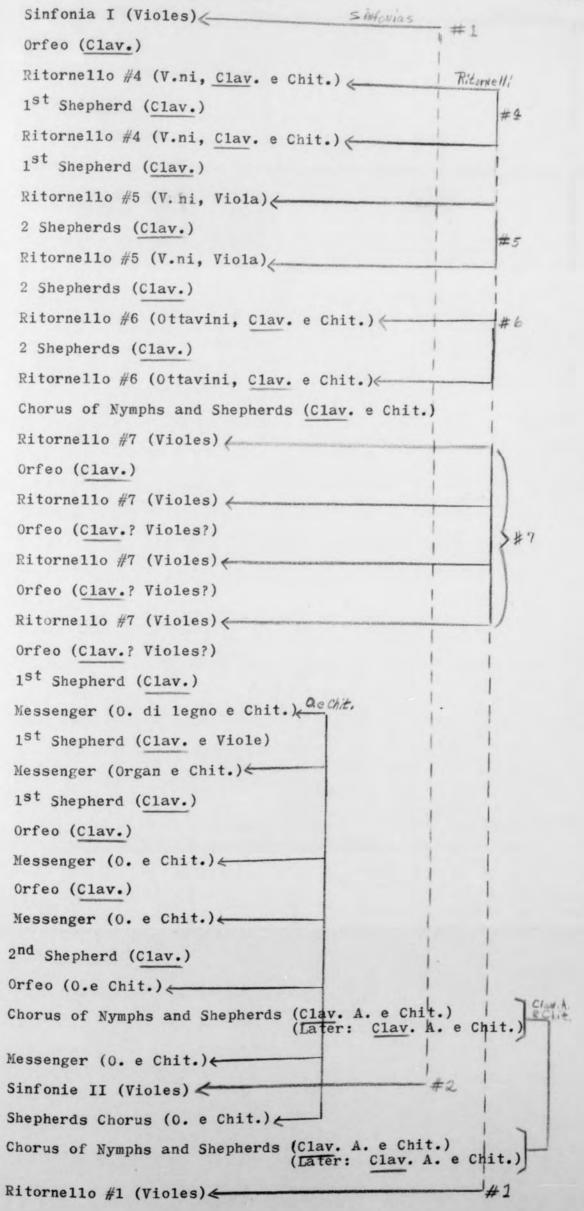
CHART OF CHIASTIC SCORING IN MONTEVERDI'S "ORFEO"

# "Il Prologo"

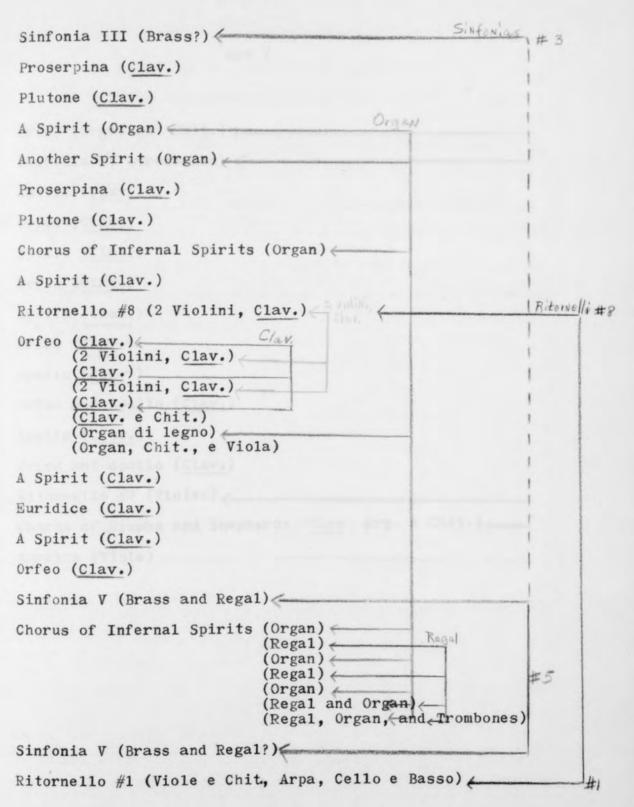
Ritornello #1	"Violes) ———	RitorNello #1
"La Musica"	( <u>Clav.</u> )	
Ritornello #1	(Violes)	
"La Musica"	(Clav.)	
Ritornello #1	(Violes)	
"La Musica"	( <u>Clav.</u> )	1
Ritornello #1	(Violes)	1000
"La Musica"	(Clav.)	
Ritornello #1	(Violes)	
"La Musica"	(Clav.)	
Ritornello #1	(Violes)	

Act I

2<sup>nd</sup> Shepherd (Clav.) Chorus of Nymphs and shepherds (Clav. A. Chit.) Chr. A. Chit. Nymph (Clav.) "Balletto" - Chorus of Nymphs and Shepherds (Ott.Arpa e Clav.) (Later: Clav. e Chit.) Ritornello #2 (unscored - 6 parts) ( Rit,#2 Shepherd (Clav.) Orfeo (Clav.) Euridice (Clav.) "Balletto" (Harp, Chit., e Clav.) (Later: Clav. e Chit.) Ritornello #2 Chorus of Nymphs and Shepherds (Clav.A.Chit?) 2nd Shepherd (Clav.) Rit. #3 Ritornello #3 <-----Chorus of Shepherds (Clav.) Ritornello #3 Chorus of Shepherds (Clav.) Ritornello #3 Chorus of Shepherds (Clav.) Chorus of Nymphs and Shepherds (Clav. A. e Chit.)



Act I	
Sinfonia III (Brass)	Sinfonias
Orfeo (Clav.)	
"Speranza" ("Hope") (Clav.)	
Orfeo (Clav.)	
Caronte (Regale)	
Sinfonia IV (Tromboni) <	
Orfeo (Organ and Chit.) Later: Violini I&II Violini I&II Violini I&II	
Intermedio I (Violini I&II,	0. e Chit.)
Orfeo (O. e Chit.) Later: Cornetti I&II Cornetti I&II Cornetti I&II	1
Intermedio II (Cornetti I&I	I, 0. e Chit.)
Orfeo (O. e Chit.) Later: Harp Harp Harp	
Intermedio III (Harp, 0. e	Chit.)
Orfeo (O. e Chit) ( Later: Violini I&II, Violini I&II, Violini I&II, Violes	Basso da brazzo
Caronte (Regal)	
Orfeo (Organ and Chit.)	Planes address of the Planes and the State of the State o
Sinfonia IV (Violes and Org	an)
Orfeo (Organ)	DrgaN I
Sinfonia III (Brass)	
Chorus of Infernal Spirits	(Organ) (Rega1) (Organ) (Rega1) (Organ and Rega1) (Organ, Rega1, ← and Trombones) (Organ)



Act IV

Act V

Orfeo (Organ and Chit.) Sinfonia IV (Trombones) Apollo (Clav.) Orfeo (Clav.) Apollo (Clav.) Orfeo (Clav.) Apollo (Clav.) Orfeo (Clav.) Apollo (Clav.) Orfeo and Apollo (Clav.) Apollo (Clav.) Orfeo and Apollo (Clav.) Apollo (Clav.) Orfeo and Apollo (Clav.) Ritornello #9 (Violes) Chorus of Nymphs and Shepherds (Clav. Arp. e Chit.)

#### Appendix III

### THESAURUS OF SEVENTEENTH CENTURY ORCHESTRAL DEVICES

This chart is modeled after Gardner Read's <u>Thesaurus</u> of <u>Orchestral Devices</u> (New York, 1953). It differs from Read's in that I have charted my information chronologically as much as possible, so that the development of the devices can be seen. Although this chart is not exhaustive it is a fairly thorough representation of the material which has been available to me.

> "Bries" Hack sound moored by gra of instruments according to bear-

"Sinfonie municali a utto yook" (Double chorus)

"Sagrod Symphonies T1" (Bach choir represents different groupings)

"Christ ist orstanden" (Cheir of viols and obsir of transbones)

"Psalmen Davids" (Sach Faalm scered for different type of senerity)

"Die wit Thranen saen" (2 choiva)

Benevoli "Hass in 53 Parts" (6 instrumental choirs. Definite groupings within choirs)

1034 Landi "Il San Alessio" (3 violins pitted against other instruments)

Nord.

Ensemble Soundas (Solo and tutti contracts)

# Division of Instruments

into Choirs or Groups

1581	Baltazarini	"Balet Comique" (Division into groups according to particular scenes)
	G. Gabrieli	"Canzon septimi toni #2 (2 unscored groups)
	G. Gabrieli	"Sonata octavi toni" (2 unscored groups)
	G. Gabrieli	"Canzona" ("Tutti" against highly figurative "concertino" of a few instruments)
	G. Gabrieli	"Canzona quarti toni" (3 choirs)
1597	G. Gabrieli	"Sacred Symphonies I" (Each section illustrates different groupings)
1602	Bone11i	"Toccata" (2 choirs)
1607	Monteverdi	"Orfeo" (Each scene scored by group of instruments according to char- acter of scene)
1610	Viadana	"Sinfonie musicali a otto voci" (Double chorus)
1615	G. Gabrieli	"Sacred Symphonies II" (Each choir represents different groupings)
	Schutz	"Christ ist erstanden" (Choir of viols and choir of trombones)
1619	Schütz	"Psalmen Davids" (Each Psalm scored for different type of sonority)
	Schutz	"Die mit Thränen saen" (2 choirs)
1628	Benevoli	"Mass in 53 Parts" (6 instrumental choirs. Definite groupings within choirs)
1634	Landi	"Il San Alessio" (3 violins pitted against other instruments)
	Neri	Ensemble Sonatas (Solo and tutti contrasts)

1667	Cesti	"Il Pomo D'Oro" (Group of viols used in one scene as opposed to
		violins in others)
1675	Lully	"Thesee" (Different acts scored differently)
	Draghi	"Balletto di Centauri" (Strings, woodwinds, and brasses grouped separately)
1676	Strade11a	"Oratorio di S. Gio. Battista" ("Concertino" and "concerto grosso")
1680	Corelli	"Concerti Grossi" ("Concertino" and "tutti")
1681	Heinrich Bach	"Ich Danke dir, Gott" ("Favoriti" and "cappella")
168 <b>1</b>	Lully	"La Triompe de L'amour" (Flute quartet)
1683	Buxtehude	"Benedicam Dominum" (3 choirs)
1686	Lully	"Acis et Galatee" (Contrasts strings and woodwinds)
1691	Purce11	"Dioclesian" (2 oboes and tenor oboe used against strings and trumpets)
	Schmelzer	"Balletto di Spiritelli" (Winds used against strings)
	Buxtehude	Motet (6 instrumental choirs accompanying 6 vocal choirs)
	Krieger	"Ein feste Burg ist unser Gott" (Different pairings within group as a whole)
	Krieger	"Mein Herz dichtet ein feines Lied" (2 identical instrumental choirs)

### Dialogue Between Instruments

	G. Gabrieli	"Canzon Seconda" (About 10 measures of pairing within choir)
	G. Gabrieli	"Canzon Quarta" (Alternation at in- terval of about 3 measures)
	G. Gabrieli	"Canzon septimi toni #2" (Imitation between 2 choirs)
	G. Gabrieli	"Canzon quarti toni" (Imitation be- tween 3 choirs)
	G. Gabrieli	"Benedictus" (Imitation between 2 instrumental choirs each accompany- ing group of voices)
1634	Landi	"Il San Alessio" (3 violins pitted against other strings)
1665	Ahles	"Misericordias Domini" (Between 2 violins)
1669	Cesti	"Il Pomo D'Oro" (Dialogue between 2 violins and cembalo with voices)
	Purcell	"Abdalazor" (Quick slashing entrances of voices)
	Buxtehude	"Min Gut er Med Mig" (Dialogue be- tween voices and strings)
1681	Heinrich Bach	"Ich danke dir, Gott" (Dialogue between upper and lower strings)
1692	Torelli	"Sinfonia" (Close alternation be- tween oboe and trumpet)

# Echo Effects

	G. Gabrieli	"Canzone" (Optional echo part for organ)
1600	Cavalieri	"Rappresentazione" (Echo between voices and/or instruments)
1603	Banchieri	"Fantasia" (Alternation between p. and f.)
1659	Baltazar	"Echo Aire" from a Suite
1688	Pallavicino	"Gerusalemme Liberata" (Short 2 measure phrases played by continuo
		instruments; repeated by full orch- estra)
1688/9	Purce11	"Dido and Aeneas" (Echo dance" - 2
	Purce11	violins have f and p contrasts) "Abdelazor" (Quick "slashing" con- trasts)
1695	Fischer	"Le Journal du Printemps"
1698	Muffat	"Florilegium secundum" (Fasicle V - f. and p. dynamics)
		"Furchtet euch nicht" (4 basecons)
		"Xerads" (S timpant)
		"Benedicas Dominum" (A trumpets, 5 trombones)
	Lactly	"Chdmus" (5 timpani)
	Freschi	"Sevenic# (40 cornetts, 6 trumpets, 6 drums, 6 sackbuts, 6 flutes, 12 . Turkish and other instruments)
	Lolly	"La Triomphe de l'amour" (flute quartel)
	Purcell	"Bioclesian" (obos trio)
	Purce 11	"St. Confilm's Day Ode" (flute trio)
	Schelle	"Lobe den Horre, mein Scele" (4 clas ini)

#### Use of Like Wind Instruments

	Earsly U	sad Instruments
1565	Striggio	"Psyche ed Amore" (4 "flauti dir- itti"; 4 transverse flutes; 4 trom- bones)
1600	Peri	"Euridice" (3 flutes)
1625	F. Caccini	"La Liberazione di Ruggiero dall Isola, d'Alcina" (3 flutes, 4 trom- bones)
1628/9	Schütz	"Fili mi, Absolom" (4 trombones)
	Schütz	"Die mit Thräenen saen" (6 trombones)
	Schütz	"Psalmen Davids" (6 trombones)
	Schütz	"Psalm XXIV" (5 bassoons)
	Schütz	"Ist Nich Ephriam" (4 cornetts)
1641	Monteverdi	"Magnificat I" ("4 Violeovvero 4 Tromboni")
	Heinrich Bach	Setting of Revelation, Ch. 12 (4 trumpets)
1658	Ahles	"Furchtet euch nicht" (4 bassoons)
1660	Lully	"Xerxès" (3 timpani)
	Buxtehude	"Benedicam Dominum" (4 trumpets, 5 trombones)
1673	Lully	"Cadmus" (5 timpani)
1674	Lully	"Alceste" (3 flutes)
1680	Freschi	"Berenice" (40 cornetts, 6 trumpets, 6 drums, 6 sackbuts, 6 flutes, 12 Turkish and other instruments)
168 <b>1</b>	Lully	"La Triomphe de l'amour" (flute quartet)
1691	Purce11	"Dioclesian" (oboe trio)
1692	Purce11	"St. Cecilia's Day Ode" (flute trio)
	Schelle	"Lobe den Herrn, mein Seele" (4 clar ini)

### Seventeenth Century Obsolescent or

Rarely Used Instruments

1565	Striggio	"Psyche ed Amore" ("Traverso Con- tralto, Flauto Grand Tenore")
1600	Cavalieri	"Io piango Filli" (2 sordelline)
1607	Monteverdi	"Orfeo" ("Ottavini", "Violino pic- colo alla Francese")
	Monteverdi	"Magnificat septem vocibus et sex instrumentis" ("fiffari")
	Schütz	"Veni sancte Spiritus" (trombone grosso)
	Schutz	"Zion spricht" (trombone grosso)
1660	Lully	"Princesse d'Elide" ("trompes de chasse" — probably hunting horns)
1677	Lully	"Isis" (musettes)
	Lully	(Ballets include bagpipes, cas- tanets, guitar, "Tambour de Basque")
	Draghi	"Balletto di Centauri" ("Piffari")
1680	Freschi	"Berenice" (12 minstrels, playing Turkish and other instruments)
1687/8	Pallavicino	"Gerusalemme Liberata" ("viola da colo")
1691	Purce11	"Dioclesian" (tenor oboe)
1692	Purce11	"St. Gecilia's Day Ode" (bass flute)
	Purce11	Two Pieces (for "Flatt trumpets" sackbuts?)
	Schmelzer	"Balletto di Spiritelli" ("Violino piffarato", "viola piffaro")

#### Double Orchestra

1597	G. Gabrieli	"Sonata Pian e Forte"
16 <b>19</b>	Monteverdi	"Tirsi e Clori" (Orchestra doubled if made necessary by size of hall)
1667	Cesti	"Il Pomo D'Oro" (2 string orches- tras used antiphonally in one scene)
1680	Strade11a	"Sinfonia a più instrumenti" (Con- certo grosso style)

"Especies Dominus" (25 parts)

# Extremely Large Orchestras

1565	Striggio	"Psyche ed Amore" (44 instruments)
1607	Monteverdi	"Orfeo" (c.36 instruments)
1628	Benevoli	"Mass" (53 parts)
1680	Freschi	"Berenice" (40 cornetts, 6 trumpets, 6 drums, 6 sackbuts, 6 flutes, 12 Turkish and other instruments)
	J. C. Bach	"Es erhub sich" (22 parts)
	Buxtehude	"Benedicam Dominum" (25 parts)
		*11 Ballo dolle Ingrate* (Muffled drums played from undernauth the atage. Focal accompaniment orchestra widden; dance orchestre on plat- fare in puditoriae?
		Privates Clard* (Instruments spad an-sings by singers)
		bet are supposed to sound far away)
		"Alarico" (Tromnets bidden)

# Orchestra's Placement

1581	Baltazarini	"Balet Comique" (Instrumental groups placed so as to accompany particular goups. Some took part on-stage)
1600	Cavalieri	"Rappresentazione" (Behind scenes and on-stage)
1600	Caccini )	South Pter
1600	Caccini ) Peri )	(Operas required "mere handful in wings.")
1606	Quagliati	"Carro di fedeltà d'amore" (Staged entirely on Thesbian ox-cart)
1608	Monteverdi	"Arianna" (Behind scenes)
1608	Monteverdi	"Il Ballo delle Ingrate" (Muffled drums played from underneath the stage. Vocal accompaniment orchestra hidden; dance orchestra on plat- form in auditorium)
1615	Monteverdi	"Tirsi e Clori" (Instruments used on-stage by singers)
1641	Monteverdi	"Il Ritorno di Ulisse" (In orches- traca pit)
1642	Monteverdi	"L'Incoronazione di Poppea" (In orchestra pit)
1674	Locke	"The Tempest" (In orchestra pit)
1674	Lully	"Alceste" (Instruments play in pit, but are supposed to sound far away)
1687	Steffani	"Alarico" (Trumpets hidden)
1688	Steffani	"Niobe" (Viols hidden)
1. 1. P. P.	PUPPEIA	"Dido and Asseus" (Repeated notes in

"Requise" (2 violin meta)

### Repeated Note Patterns

(Leading to Bowed Tremolo and Double Tonguing)

	A. Gabrieli	"Aria della Battaglia per sonar d'Instrumëti da Fiato" (Repeated notes in all parts)
1599	Donati	"Guidizio d'Amore" (Violin has re- peated notes)
	Monteverdi	"Book V"
1624	Monteverdi	"Tancredi e Clorinda"
1625	Schutz	"Sacred Symphonies" (unscored)
1634	Landi	"Il San Alessio" (unscored)
1670	Peze1	"Sonata #2" (Repeated notes in all parts at once)
	Werkmann	"Kommet her zu min alle" (Violin part)
1673	The ile	"St. Matthew Passion" (Repeated notes in gamba parts)
1674	Draghi	"La Laterna di Diogene" (Repeated notes in rhythmic patterns)
1675	Locke	"The Tempest" (Repeated notes in strings at "Violent" section)
	Buxtehude	"Gott hilf mir" (String parts marked "Largo", therefore possibly do not foreshadow bowed tremolo)
	Buxtehude	"Herr, ich lasse dich nicht"
	Kuhnau	"Wie schön leuchtet" (Fast tonguing in "Corno grande" part)
1688/9	Purce11	"Dido and Aeneas" (Repeated notes in strings)
1699?	Biber	"Requiem" (2 violin parts)

# Bowed Tremolo

	Marini	Canzone
	Usper	
	Riccio	
1624	Monteverdi	"I1 Combattimento" (supposedlyifirst use )
1641	Monteverdi	"Il Rittorno di Ulisse"
1650	Schutz	"Sacred Symphonies III"
	Merula,	Canzone
1667	Cesti	"Il Pomo D'Oro" (Mysterious wavy line ~~~ may indicate type of trem- olo or vibrato)
1684	Ker11	"Requiem"
	Buxtehude	"Tröst mir mein Seel in Todesnoth" (Violins marked "tremulo")
1687/8	Pallavicino	"Gerusalemme Liberata"
1688	Steffani	"Niobe" (Wavy line)
1688/9	Purce11	"Dido and Anneas"
1689	Purce11	"Yorkshire Feast Song"
1692	Purce11	"St. Cecilia's Day Ode" (Wavy line)

# Fingered Tremolo

1650	Schutz	"Sacred Symphonies III"
1680?	Corelli	"Concerto Grosso VII" (In upper violin part)
1687/8	Palavicino	"Gerusalemme Liberata"
1688/9	Purce11	"Dido and Aeneas"

# Legato Bowing

1617	Marini	(Works contain some of earliest ex- amples)
	Bruhns	"Die Zeit meines" ( ))
	Bruhns	"O werter heil' ger Geist" (
1688	Steffani	"Niobe" ( JJ] "un sol tiro d'arco")
1698	Muffat	"Florilegium secundum"

# Pizzicato

1624	Monteverdi	"Il Combattimento"	(First use)
1641	Monteverdi	"Il Ritorno di Uliss	e"

#### Use of Harpsichord Pedal

1695 Muffat

"Florilegium" (This may be an editor's mark, though the pedal was invented by 1664. Scordatura

(Used by Biber in his violin sonatas, but evidently not in orchestral works of the period.)

### Multiple Stops

1607	Monteverdi	"Orfeo" (?)
	Marini	Works include double and triple stops)
1627	Farina	"Capriccio stra <b>vagan</b> te" (Double and triple stops)
1650	Schutz	"Sacred Symphonies III" (Double stops?)
	J.C.Bach	"Mein Freudin" (Double stops in first violin part)
	Bruhns	"Paratum cor mum" (Quintuple stops in second gamba part; quad- ruple stops in first gamb <b>a</b> part)

#### Harmonics

1627 Farina

Kuhnau

"Capriccio Stravagante"

"Wie schön leuchtet" (High note in second viola possibly played on harmonic)

"351 aba "

"Kedes" (S mutad violins)

"Ihr liebon Christen, freul each man" (2 mated claric) Rud wated troshowes)

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# Mutes

1607	Monteverdi	"Orfeo" (Muted trumpets)
1672	Buxtehude	"Wedding Cantata" (Muted brass)
1686	Lully	"Armide" (Muted strings)
1687	Steffani	"Niobe"
1693	Charpentier	"Médée" (3 muted violins)
	Buxtehude	"Ihr lieben Christen, freut euch nun" (2 muted clarini and muted trombones)
	Buxtehude	"Nun lasst uns der Leib Begraben" (Muted trumpets)
		Bravers arts Thumps I states
	Reducture	
		the second transfer decise winter
	Rrieger	

Extreme Range Demands

	In the line	Range Demands
1607	Monteverdi	"Orfeo" (Violin , a stagger- ing height then)
1628	Benevoli	"Mass in 53 Parts" (First Violino
	Kindermann	"Ex Psalmo 89" (Bassoon or trombone grosso)
1658	Hainlein	"Hodie Christus Natus Est" (Violin
1667	Cesti	"Il Pomo D'Oro" (Violini
c.1669?	Bernhard	"Diologue" (Bassoon frequently)
	Buxtehude	"Aria" (Bassoon ) Played octave
	Buxtehude	"Ihr lieben Christen, freut euch nun" (Cornett
	Steffani	Bravura aria (Trumpet
1681	Strade11a	"Susanna" (Violin
	J.C. Bach	"Es erhub sich" (2 trumpets
1689	J.C. Bach	"Mein Freudin" (First violin
	J.M. Bach	"Ach bleib" (First violin )
	Fux	"Sonata a quattro" (Cornett ; ; Violino and oboes
	Knüpfer	"Ach Herr, strafe" (Second flute; low tessitura)
	Knüpfer	"Was mein Gott Will" (Cornett
	Knüpfer	"Machet die Tore weit" (Violin
	Kuhnau	"Wie-schön leuchtet" (Second viola
1694	Purce11	"Great Parent Hail" (Flute
1698	Krieger	"Preise Jerusalem" (Trombetta I

J

#### Notes Demanded of Timpani

- 1628 Benevoli
- Lu11y 1660
- 1672 Schmelzer
- Lully

1673

- Krieger 1685
- Steffani 1687
- Schwemmer 1689
- 1693 Charpentier Schelle
- "Xerxès" ( "Sonata con arie zu der kaiserlichen Serenada" ( "Cadmus" ( "Magnificat" ( "Alarico" ( "Victoria, plaudite coelites" (

"Mass" (4 timpani used

"Medée" (

"Lobe den Herrn, mein Seele" (7

from tenor to alto clefs; continue. changes between alto, tenor, and

"Ihr Christen, freuet euch" (Gamba changes between alto, soprano, and

# Clef Changes

1597	G. Gabrieli	"Sacred Symphonies I" (Clefs move freely, but only at beginnings of movements. Parts commonly found with two or more different clefs)
1615	G. Gabrieli	"Sacred Symphonies II" ("Basso per l'Organo" part has two (or more?) different clefs)
1623	Schütz	"Easter Oratorio" (4 gambas change between bass and treble clefs)
1628	Benevoli	"Mass in 53 Parts" (Organ has 3 clefs to its single figured line: bass, tenor, and alto)
1645	Hammerschmidt	"Dialogi oder Gespräche einer Gläu- bigen Seele mit Gott" (Trombone changes from bass to tenor clef frequently)
1649	Cavalli	"Giasone" (Unscored, changes between bass and treble clefs)
	Buxtehude	"Ad Cor" (Bass gamba goes into treble clef)
c.1669?	Bernhard	"Tribulaies" (Organ has bass and alto clefs)
	Bruhns	"Paratum cor meum" (Gamba parts have bass and tenor clefs)
1673	The <b>ile</b>	"St. Matthew Passion" (Gambas change between alto and bass clefs, and from tenor to alto clefs; continuo changes between alto, tenor, and bass clefs)
1687	Krieger	"Ihr Christen, freuet euch" (Gamba changes between alto, soprano, and bass clefs)

#### Key Signatures Beyond

One Sharp or One Flat

Instrumental music (2 shaps) 1643 Kindermann "Was Mein Gott Will" (2 flats and Knupfer 3 flats) "La Dori" (3 sharps, 2 flats-strings) Cesti 1663 "Aria" (4 sharps - winds and s trings) Buxtehude "Hark, Damon, Hark" (2 flats in flute 1682 Purce11 parts) "Die Gerechten werden weggerafft" Krieger 1686 (3 flats and 4 flats) "Singet dem Herrn ein noues Lied" 1687 Krieger (3 sharps for strings and bassoon) "Niobe" (3 flats; frequent acciden-Steffani 1687 tals, making more flats) "Celestial Music" (3 flats in flute 1689 Purce11 part) "Great Parent Hail" (2 flats in flute 1694 Purce11 part) "Florilegium secundum" (Fascicle V Muffat 1698 - 3 and 4 sharps; Fascicle VIII -4 and 5 sharps) "Heilig, heilig, heilig is den Herr" (3 sharps in strings and oboe) Krieger c.1700

# Chromatics and Frequent Accidentals

c.1600?	G. Gabrieli	"Canzon septimi toni #2" (Several accidentals)
	G. Gabrieli	"Canzon Quarti toni" from "Sacred Symphonies" (Unscored, but acciden- tals in all parts)
1645	Hammerschmidt	"Dialogi oder Gespräche einer Gläu- bigen Seele mit Gott" (In Dialogue V)
1664	Schutz	"Seven Last Words" (Unscored)
1667	Cesti	"Il Pomo D'Oro"
1687	Steffani	"Niobe" (Chromatic passages in all parts)
1693	Colasse	"Medea" (Not scored, but contains many accidentals)
1698	Muffat	"Florilegium secundum" (Fascicleas V and VIII)

#### Improvisation Indicated in Score

L58 <b>1</b>	Baltazarini	"Balet Comique" (Instruments specified for overture, but no music actually written down)
1691	Purce11	"Dioclesian" ("Flourish with all instruments in C-fa-ut key")

"Conce" ("Contrabases de Viela touchi

"Furtitura de Daorigali" (F.E.S. For Porte, Piane, Robe, and trill the common Known.")

"Lacred Symphonism (IIT" ("Fortiar")

TERMAN I BYT, , , " (F ARE M)

"Xernes" ["loud", and "doux"]

"The Tempest" ("anit, lowder by dsgrens, violent, wolf and slow by degrees")

Malcester (d and f)

"Rusick's Kongsent" ("Lo" and "So")

"La Cademia d'Amare" (Gradual dymamic chavge, not terraced)

and "forte")

"Kiobe" (p, pp, ppp, ppp) - editor's marks?)

"Dido and Seneas" (2 and p)

505 Fischer "Le Journal du Frinteeps" (t. and d. .... "tous" and "doux"?)

### Dynamic Indications

1597	G. Gabrieli	"Sonata pian e forte" (Implied by instrumentation)
1603	Banchieri	"Fantasia" (Short echo passages be- tween p. and f.)
160 <b>7</b>	Monteverdi	"Orfeo"
1619	Monteverdi	"Tirsi e Clori" (Typical instructions in the work are "Contra bass to be touched very softly.")
1624	Monteverdi	"Tancredi e Clorinda"
1634	Landi	"Il San Alessio" (Contrast at short intervals)
1634	Henry Lawes	"Comus" ("Contrabasso de Viola tocchi pian piano.")
1638	Mazzoc <b>c</b> hi	"Partitura de Madrigali" (F.P.E.t. for Forte, Piano, Echo, and trill are common known.")
1650	Schutz	"Sacred Symphonies III" ("Fortier")
	Werkmann	"Kommet her" (f and p)
1660	Lully	"Xerxes" ("loud", and "doux")
1667	Locke	"The Tempest" ("soft, lowder by de- grees, violent, soft and slow by degrees")
1674	Lu11y	"Alceste" (d and f)
1676	Mace	"Musick's Monument" ("Lo" and "So")
c.1681?	Stradella	"La Cademia d'Amore" (Gradual dy- namic change, not terraced)
	Buxtehude	Cantatas (Various ones have "piano" and "forte")
1688	Steffani	"Niobe" (p, pp, ppp, pppp — editor's marks?)
1688/9	Purce11	"Dido and Aeneas" (f and p)
1695	Fischer	"Le Journal du Printemps" (t. and d., "tous" and "doux"?)

# Tempo Marks

TYRE1.00

1551	Susato	Dance ("allegro")
1611/2	Banchieri	"Organo suonarino" ("Adagio, alle gro, veloce, presto, più presto, and prestissimo")
1635	Frescobaldi	"Fiori Musicali" (Gives information on tempo. Includes "rubato")
1650	Schutz	"Sacred Symphonies III" ("Praesto" and "Tarde")
1667	Locke	"The Tempest" ("violent, soft and slow by degrees")
1671	Legrenzi	"La Buscha" ("Allegro, adagio")
	Buxtehude	"Gott hilf mir" ("Largd")
1692	Torelli	"Sinfonia" ("allegro", etc.)
1695/8	Muffat	"Florilegium Primum and Secundum" ("allegro, grave", etc.)

## Broken Octaves and Arpeggios

1622	Marini	"Balletto e Corente a 3" (Not scored, but contains octave leaps. Marini sometimes called for "a modo di lira", after the polyphonic playing of viols)
1639	Merula	Canzona (Unscored, but contains broken octaves in all parts)
	Kindermann	"Gestlichte Konzert" (Broken chords in violin parts)
1662	Ahles	"Auf das Fest der Himmelfahrt" (Ar- peggios)
1662	Ahles	"Auf das Fest des Erzengels Michael" (Arpeggios)
before		
1664	Carissimi	"Jonas"
1667	Cesti	"Il Pomo D'Oro"
1687	Steffani	"Alarico" (Broken chords)
	J.C.Bach	"Mein Freudin" (Alberti type part in first violin)
1690	Scarlatti	"La Rosaura" (Broken arpeggios in violin part)

#### Fanfares

Monteverdi

1607

"Orfeo" ("Toccata")

	Monteverdi	"Book V" (Scenes (dentified by diff.
1642	Monteverdi	"Poppea" (Unscored, but condúcive to brasses)
	J.C.Bach	"Es erhub sich" (Trumpets in C)
	Buxtehude	"Ihr lieben Christen, freut euch nun" (3 cornetts and trombones)
1693	Charpentier	"Médeé" (Trumpets in D and drums)
		"Sapriculo Stravagent", 14 members of violin family initate culs, dogs, hens, pipes, lyre, impouring, and Trampole)
	1 Contrain	
		"Supid and Donth" these weight accom- maniment to entyr dancing with spen suggest quark postering by melodic line - Parry)
		"IL Pomo D'oro" (Infernal scene accomparied by trasboans and cor- neite; mortial scene by trampels; Shownce of instruments is earth- quake gauge)
		"Nein Gamüth erfreuet sich" (Violins initate lutes, harps, violes, and clavecins; other instruments paint words of text)
	Luily	"Roland" (Instruments create furious music as Roland tears up trees, etc.
	Steffani	"Alarico" (Flute used when mentioned in text)
	Purcell	"pido and Aunous" (Tremple used for storm)
	G.C.Bach	*Siche, wie fein. , ." (3 viols used symbolically for the Trinity)
	J.C.Bach	"his around sich" (Trumpets for

"Euridice" (Triple flute played by 1600 Peri shepherd for pastoral scene) "Orfeo" (Scenes identified by dif-1607 Mon teverdi ferent instruments) "Psalm 150" (Scored according to in-Schutz struments mentioned in text) "Tancredi e Clorinda" Monteverdi 1624 "La Liberazione. . ." (3 recorders F. Caccini 1625 in pastoral ritornelli of shepherd's song) "Capriccio Stravagant" (4 members 1627 Farina of violin family imitate cats, dogs, hens, pipes, lyre, tambourine, and trumpets) "Requiem" (Strings imitate bells) 1631 Strauss Setting of Revelation Ch. 12 (4 Johann Bach trumpets used in battle scene) "Cupid and Death" (Unscored; accom-1659 Locke paniment to satyr dancing with apes suggest quaint posturing by melodic line - Parry) "Il Pomo D'Oro" (Infernal scene 1667 Cesti accompanied by trombones and cornetts; Martial scene by trumpets; Absence of instruments in earthquake scene) "Mein Gemuth erfreuet sich" (Violins Buxtehude imitate lutes, harps, violes, and clavecins; other instruments paint words of text) "Roland" (Instruments create furious 1685 Lully music as Roland tears up trees, etc.) "Alarico" (Flute used when mentioned 1687 Steffani in text) "Dido and Aeneas" (Tremolo used for 1688/9 Purce11 storm) "Siehe, wie fein. . ." (3 viols used 1689 G.C.Bach symbolically for the Trinity) "Es erhub sich. . ." (Trumpets for J.C.Bach battle scene)

## Character Delineations

1600	Peri	"Euridice" (Triple flute played by shepherd)
1607	Monteverdi	"Orfeo" (Characters identified with particular instruments)
1619	Schütz	"Psalm XXIV" (Each instrumental group identified with a person)
1623	Schütz	"Easter Oratorio" (Evangelist accompanied by 4 gambas; Jesus by 2 viols)
1643	Anonymous	"Philothea" (Personified scoring for people and ideas — ex. = "clemency")
1664	Schütz	"Christmas Oratorio" (Each man or group associated with certain group of instruments)
1'664	Schutz	"Seven Last Words" (Jesus accompanied by "2 violen")
	Weckmann	"Diologus" (Characters scored appropriately)
1672	Sebastiani	"Passion" (Violas accompany Evan- gelist; violins accompany Jesus)
1673	Theile	"St. Matthew Passion" (Evangelist accompanied by gambas; Jesus by viols)
	J.M. Bach	"Liebster Jesu" (Jesus always accompanied by 2 violini)

#### Imitation of Sounds

1627	Farina	"Capriccio Stravagante" (Cats, birds, dogs, trumpets, pipes, imitated by 4 strings)
1631	Strauss	"Requiem" (First attempt of instru- ments to imitate bells)
	Buxtehude	"Mein Gemuth erfmet sich" (4 violins imitate lutes, harps, viols and clavecins)
		clavecins)

### Importance of First Player

1600	Cavalieri	"Rappresentazione" (Florid upper violin part)
1621/9	Castello	"Sonate concertate in stilo mod- erno" (Soloistic passages, mostly for violin)
1644/64	Neri	Ensemble Sonatas (Solo passages alternating with tutti)
1680?	Corelli	"Concerto Grosso XII" (First violin important)
	Buxtehude	"Benedicam Dominum" (Bombarde solo)
1687	Steffani	"Alarico" (Solo and tutti contrasts)
1694	Purce11	"Great Parent Hail" (First violin important)
1695	Fischer	"Le Journal du Printemps"
	Schelle	"Lobe den Herrn" (First violin and first cornettimportant)
1698	Fischer	"Zodiaci" (Solo parts for strings)
1698	Torelli	"Concerti Grossi" (Short interludes for solo violin)
c.1699	Biber	"Requiem" (First and second violins on solo par with voices)

# Obligato Parts

1650	Monteverdi	"Concertante Psalms" (Obligato string orchestra in three parts and four-fold viols or trombones with voices)
1651?	Monteverdi	"Messa a 4 e Salmi" (Bassoon ob- ligato)
1690	Scarlatti	"La Rosaura" (2 obligato violin parts)
1691	Purce11	"Dioclesian" (Obligato trumpet part)
1692	Purce11	"Cecilia's Ode" (2 obligato oboe parts)

violar parts

ASE . INTERIOR WITT BOD ONE

"And, inert uns der merses lobos" (simip-fourth notes im fiest string parts)

"Alarico" (thirty-ascons) notes for trumpets; later assocrad, but wrobably for atringu)

"The Christen, Issant such" (DIF-Figulf places for violis and gamba)

"Garusalaume Libersta" (hifficals

"Giehe, wie fein. . ." (Melismatic theme occurs is all three gamba parts)

"Hanrico Laoon"

"bloclesian" (Difficult trumpet

"Concarto Pastorale" (No broatbing places for flates)

### Virtuoso Demands

	G.Gabrieli	"Canzona per sonare" (Ambitious fugue theme for all instruments)
	G.Gabrieli	"Canzone a 11" (Large group pitted against small group with highly figurative part)
1607	Monteverdi	"Orfeo" (Violins, cornetts and double harp have rigorous passages)
1624	Monteverdi	"Tancredi e Clorinda"
	Marini	(Treats violin as voice with gorgia — ornaments)
	Steffani	"Bravura aria" (Obligato trumpet part)
1680	Corelli	"Concerti Grossi" (Florid first violin part)
	J.M.Bach	"Ach wie sehnlich wart' ich der Zeit" (thirty-second notes)
	J.M.Bach	"Auf, lasst uns der Herren loben" (sixty-fourth notes in first string parts)
1687	Steffani	"Alarico" (thirty-second notes for trumpets; later unscored, but probably for strings)
1687	Krieger	"Ihr Christen, freuet euch" (Dif- ficult places for violin and gamba)
1687/8	Pallavicino	"Gerusalemme Liberata" (Difficult places for first violin)
1689	G.C.Bach	"Siehe, wie fein" (Melismatic theme occurs in all three gamba parts)
1689	Steffani	"Henrico Leone"
1691	Purce11	"Dioclesian" (Difficult trumpet part)
	Pez	"Concerto Pastorale" (No breathing places for flutes)

#### Appendix IV

SOURCES FOR CHRONOLOGICAL CHART OF SCORING

The purpose of this chart is to give an over-all view of the variations in instrumentation throughout the late sixteenth and entire seventeenth century, by listing over two hundred works and the instruments for which they were scored. Occasionally chamber music has been included for the interest it adds to instrumentation. In some cases sources differ on the exact instrumentation of works, and in these cases I have chosen the largest number of instruments called for, and given credit to each source.

- 1. Eitner, Quellen Lexicon, IX, 330.
- 2. Ibid.
- 3. Carse, History of Orchestration, p. 24.
- 4a. Grout, Short History of Opera, I, 62.
- 4b. Redlich, Claudio Monteverdi Life and Works, p. 97.
- 5. Gleason, Music Literature Outlines, II, 40.
- 6. Bukofzer, Music in the Baroque Era, p. 20.
- 7. Groves, Dictionary of Music and Musicians, V, 136.
- 8. Bukofzer, loc. cit.
- 9. Davidson and Apel, <u>Historical Anthology of Music</u>, I, 165.
- 10. Grout, <u>loc</u>. <u>cit</u>. Attributed to Caccini in Carse, <u>op</u>. <u>cit</u>., p. 22.

11.	Fétis, <u>Biographie</u> <u>Universelle</u> <u>des Musiciens</u> , I, 234.
12.	Carse, op. cit., p. 26; Apel, <u>Harvard Dictionary</u> , p. 519.
13.	Boyd, Elizabethan Music and Musical Criticism, p. 163.
14.	Franko (ed.), <u>Monteverdi</u> <u>Suite</u> for <u>Five</u> <u>Brass</u> <u>Instru-</u> <u>ments</u> , p. 2.
15.	Redlich, op. cit., p. 48; Silbert, "Francesca Caccini called 'La Cecchina'", <u>Musical Quarterly</u> , (Jan. 1946), XXXII, p. 60.
16.	Groves, op. cit., II, 127; Burney, General History of Music, p. 565,
17.	Dorian, History of Music in Performance, p. 65.
18.	Groves, op. cit., VI, 198.
19.	Baker's Biographical Dictionary, p. 1704.
20.	Franck, Two Pavans (ed. King), p. 368.
21.	Eitner, op. cit., VI, 366.
22.	Monteverdi, Works, II, frontispiece; <u>Denkmäler</u> <u>der</u> <u>Tonkunst in Bayern</u> , VI, part 1, pp. 47-8.
23.	Smith College Archives, XIII, third page of intro- duction.
24.	Carse, op. cit., p. 36.
25.	Redlich, op. cit., pp. 65-6.
26.	Schrade, Monteverdi, Creator of Modern Music, p. 239.
27.	Ibid, p. 245; Carse, op. cit., p. 46.
28.	Brade, Two Pieces, (ed. King), p. 463.
29.	Schrade, op. cit., p. 220.
30.	Ibid., p. 255.
31.	Redlich, op. cit., p. 127.
32.	Ape1, <u>op</u> . <u>cit</u> ., p. 173.
33.	Baines, <u>Woodwind</u> Instruments and <u>Their</u> History, p. 272.

34.	Byrd, Complete Works, XIX, pp. 71 and 166.
35.	Denkmäler der Tonkunst in Österreich, LXX, 3.
36.	Carse, <u>op</u> . <u>cit</u> ., p. 51.
37.	Bukofzer, op. cit., p. 24. A late work, according to Davidson and Apel, op. cit., I, p. 234.
38.	DTÖ, loc. cit.
39.	Groves, op. cit., VIII, 645.
40.	Bukofzer, op. cit., p. 24.
41.	Bakers, <u>op</u> . <u>cit</u> ., p. 940.
42.	Parry, Oxford History of Music, p. 221.
43.	Carse, <u>op</u> . <u>cit</u> ., p. 52.
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46.	<u>Ibid.</u> , p. 297.
47.	Groves, op. cit., V, 644.
48.	Bukofzer, op. cit., p. 91.
49.	Groves, <u>loc</u> . <u>cit</u> .
50.	Ibid.
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59.	Prunières, "Monteverdi's Venetian Operas", <u>Musical</u> <u>Quarterly</u> , (April 1924), X, 186.
	Schering, Geschichts der Boeik in Beispielnn, p. 249.

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- 77. Redlich, loc. cit.
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- 81. Groves, op. cit., p. 843.
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- 107b. Carse, op. cit., p. 71.
- 108. Groves, op. cit., VII, 647.
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- 169. DTB, op. cit., p. 14.
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- 183. Groves, op. cit., p. 1014.
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- 186. Ibid., XII, part 2, p. 79.
- 187. Ibid., p. 71.
- 188. Groves, loc. cit.
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- 193. Purcell, op. cit., IX, 1+.
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- 207. Gleason, op. cit., p. 52.
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- 213. Ibid., VI, part 1, 69.
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- 215. Ibid., XXVII-XXVIII, 77.

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- 218. Buszin, <u>loc</u>. <u>cit</u>.
- 219. Parry, op. cit., p. 391.
- 220. DdT, op. cit., frontispiece to part 2.
- 221. Ibid., LII-LIV, 221.

222. DTO, op. cit., p. 41.

223. Groves, op. cit., VIII, 514.

9, (ed. King), p. 193. p. 133 and 147.

2.

DATE	COMPOSER	COMPOSITION	p. 133 and 147.
1543	Susate	"Premier Liva à quatre part treble et une	p. 391.
3,5092	Bjøre	changons, com à la voix com mentz"	<pre>contispiece to part 221.</pre>
<sup>2</sup> 1544	Susato	"Premier Livr a trois parti continues tre	41.
1.40		velles chaoso à la voix com	VIII, 514.
<sup>3</sup> 1551	Susato	Dances	
4a 1565	Al. Striggio	"Psyche ed Am	
		1	
and the second			
	- and a second		
45 1565	Al. Striggio	"Psiche ed Ara	
		a the Parlie of	
1.567	0. Ösbrisli	Radeed Sea Testilad only	
	Marter ardi	Participation of the second se	
oper ?	Ga Caseini	"Emidice" o	
J <b>1581</b>	Beajoyeulx	"Ballet Comiqu	
6		-6	
<sup>6</sup> 1583	G. Gabrieli	"Penetial Parl	

O. Gabirtali

#### CHRONOLOGICAL CHART OF SCORING

DATE	COMPOSER	COMPOSITION	STRINGS	WOODWINDS	BRASSES	KEYBOARD	PERCUSSION
1543	Susato	"Premier Livre de chansons à quatre parties, contenant treble et une nouvelles chansons, convenables tant à la voix comme aux instru- mentz"	• • • • • • • • • • • • • • • • • • • •	• • • • • For voices or in	struments		
<sup>2</sup> 1544	Susato	"Premier Livre de chansons a trois parties, auquel sont continues trente et une nou- velles chansons convenable tant a la voix comme aux instrumentz"		• • • • • For voices or in	astruments	• • • • • • • • •	• • • • • • •
31551	Susato	Dances	••••••••••••••	table for performance on a	11 musical instrumen	is"	
<sup>4</sup> 2 1565	Al. Striggio	"Psyche ed Amore"	4 lutes 1 lyre 1 bass lyre 1 small rebec 1 soprano viol. 4 "bowed" viols 4 bass viols 1 contrabass viol	2 recorders 4 transverse flutes 2 tenor flutes 1 tenor oboe	4 trombones 1 large cornett 2 soft-toned cornetts 5 (1) serpents	4 clavicembalos	
44 1565	Al. Striggio		4 violini 1 Luito mezzano [Stal 1 Leuto Grosso [Stal 1 Sotto Basso da Viola 4 Luito 1 Viola d'Arco 1 Lira 1 Rebecchino (early fiddle) 1 Soprano di Viola	2 flauti diritti (recorders) 4 flauti traverse 1 Traverso Contralto (alto flute) 1 Flauto Grande Tenore 1 Dulziano (bassoon)	<pre>1 cornetto muto   (stiller zink) 4 tromboni 1 Trombone basso 5 Storte (serpents) 1 Stortina (little    serpent) 2 Cornetti ordinari 1 Cornetto grosso</pre>	2 gravicembali	2 Tamburi (drums)
1581	Beajoyeulx	· · · · · · · · · · · · · · · · · · ·	Strings Lutes Lyres Harps	Oboes Flutes	Cornetts Sackbut <b>/s</b>	Small organ (wooden pipes)	C C C C
61583	G. Gabrieli	"Penetial Psalms"	••••• Insta	ruments and voices togethe up to discretion of p			S.Ta

M							
1585	G. Gabrieli	"Madrigali a 6 voci o instrumenti"		Instruments not sp	pecified	• • • • • • • • • • • • •	•••
\$1587	G. Gabrieli	"Concerti per voci et stromenti"	• • • • • • • • • • • •	"For voices and inst	truments"	• • • • • • • • • • • • • •	• • •
<sup>9</sup> 15897	Byrd	"Christ Rising Again" (Verse Anthem)	Viols				
101589	Anonymous?	"Intermedi of 1589"	<pre>2 harps 6 lutes 2 chitarrones 2 guitars 1 psaltery 1 cither 1 mandola 1 viola bastarda 2 lyres 1 small violin (soprani di viola) 1 violino 3 tenor viols 2 bass viols 1 contrabass viol</pre>	l traverse flute l (or more) tenor obes bassoons	2 cornetts 4 trombones	l small cembalo l organ with wooden pipes l "organo di pivette" (?)	
<sup>//</sup> 1593	Banchieri	"Premier Livre de chansons à quatre parties, au quel sont contenues trente tante à la Voix comme aux Instrumentz"	(Perhaps more viols)	• • • • • • For voices or inst	ruments	• • • • • • • • • • • • • • •	• •
12 1597 13 14 1599 14 1599	G. Gabrieli Morley Monteverdi	"Sacred Symphony I" "tam vocibus quam instrumentis" "First Book of Consort Lessons" "Book V"	2 violins (violas?) Treble Lite Pandora Cittern Trable * Bass viol	bassoons Flute	2 cornetts 2 (3) trombones ruments		Conega Collectio
151600	G. Caccini	"Euridice" (Opera)		Flutes (specified 2) Mere handful of instrument	s (mspecified?).	Basso continuo	000 000
1600	Cavallieri	"Pappresentazione" ("Oratorio")	Lira Doppia Chitarrone o Teorba (Violino)	2 flutes "Due tibie all' antica" Instruments merely suggest		Clavicembal® Organo soave (con chitarrone)	9.142 9.142 9.152

17						15
c. 1600	G. Gabrielli	"Sonata pian e forte" (Sac. Sym.IN)	•••••	Orchestra I	2 alto trombones 1 tenor trombone 1 cornett	
10			l viola	Orchestra II		· · · · · · · · · · · · · · · · · · ·
18 1600	Peri	"Euridice" (Opera)	chitarrone lira grande Theorbo	3 flutes		harpsichord
19 1602	Viadana	"Cento concerticon il basso continuo"		Instruments not specified .		. Basso continuo
20 1603	Frank	"Pavans"		"Auff allerley Instrumenter	n"	
21603	Maschera	"Canzona"		instruments not specified.		
22 1605	Quagliat	"Il Carro di Fedelta d'Amore"	violin lute theorbo			cembalo
				"e altri instromenti"		
24	Gagliano	"Daphne" (Opera)		Various instruments		Basso continuo
1607	Monteverdi	"Orfeo" (Opera)	l "arpa doppia" (double ha 2 chitarroni 2 bass cithers	rp) l flautino alla Vigesima seconda (2 parts given)	4 tromboni 2 cornetti 1 clarino	2 clavicembalos 1 organo di legno 1 regal
			3 bassi de gamba 2 violini alla francese 10 viole da brazzio 2 contrabassi de viola		3 trombe sordine	
25 1607	Monteverdi	"Scherzi" of 1607	2 violins	Probably scored for:		Harpsichord (or bass lute)
26			bass bass lute (or harpsichord)			
1608	Monteverdi	"Ariama"	••••••••	richly scored as "Orfeo" (		• 100 March
27 1608	Monteverdi	"Il Ballo della Ingrate"	5 (10) viole da braccio chitarrone (2 if necessary	)		harpsichord muffled (2 if drums necessary)

28 1609	Brade	"Allemande" and "Galliard"	•••••• "Auff allen Mu	sicalischen Instrumenten	liebich zu gebrauche	n"	
29 1609	Monteverdi	"Scherzi Musicali"	2 viole da brazzio chitarrone (or clavicembalo)			clavicembalo (or chitarrone)	
30 1610	Monteverdi	"Sonata Sancta Maria" (from "Vespers")	2 violini da brazzio 1 viola da brazzio		2 cornetti 2 tromboni ( or	Organ	
*					l trombone and l viola da brazzio l trombone doppio	o)	
31 1610	Monteverdi	"Vespers"	Violins Violas Gambas Contrabasses	Flutes Oboes (shawms)	2 cornetts (zinken) 3 trombones	Organ	
32 1610	Viadana	"Sinfonie musicali a otto voci"	••••• •••• •••• Ins	truments not specified b	ut implied		
33 1610	Anonymous	"Ceremonial pavan"		S¢hawm band			
34 c.1611?	Byrd	"Instrumental Fantasias"	Instruments	not specified, but viols	probably intended		
3 <i>5</i> 1611	Peuerl	Instrumental dances		"e altri instroment	i"		
34 1611 [516]	Quagliati	"Carro di Fedelta d'Amore"	Violino ò altrie soprano leuto tiorba			cembalo	
	G. Gabrieli	"In Ecclesiis" (Motet)	Violini (actually violas)		2 cornetti 2 tromboni	Organ	
38 1613	Peuerl	Instrumental dances		Unscored			caliere
39 1614	Usper	"Messa e salmi"		Various instruments		Organ	Collection
¥0 1615	G. Gabrieli	"Suscipe Clementissme" (From Sac.Sym. II)			6 trombones		es este
4/ 1615	Leone	"Concerti à 10 for voices and 6 instruments"		. Instruments not speci	fied	• • • • • • • • • • •	11001
2 1617	Anonymous	"La Délivrance de Renait"	24 violies				

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43 1618	Boschetti	"Strali d'Amore"		. Instruments not specif	ied	Basso Continuo	
44 1619	Landi	"Le Morte d'Orfeo"		. Instruments not specif	ied		
%5 <sup>-</sup> 1619	Monteverdi	"Book VII" (Madrigals)	2 vielins	Three instrumental choi 2 flutes	rs:	Basso continuo	
46 1619	Monteverdi	"Tirsi e Clori"	2 (3) chitarroni (or l chit- arrone and l (3) harps) 8 viole da brazzo 1 contrabasso 2 small lutes			1 small spinet	
47 1619	Schütz	"Psalmen Davids" ("Die mit Thränen säen")			3 (6) trombones		
48 1619	Schütz	"Psalmen Davids" (Ist nicht Ephraim")			cornetti trombones		
49 1619	Schutz	"Psalmen Davids" ("Nun lob mein Seel")	Strings (?)		Brass (?)		
50 1619	Schütz	"Psalmen Davids" ("Zion spricht")			Cornetts Trombones		
57 1619	Schütz	"Psalm XXIV"	2 violins	5 bassoons	2 cornetts 4 trombones		
52 1619	Schütz	"Bsalmen XXIV" ("Veni, sancti spiritus")	Violin Violone	flute 1 bassoon	2 cornetts 3 trombones		
53 1619 1521/0	Schütz	"Psalmen XXIV" ("Wo Gott der Herr nicht bei uns hält")	l lute 3 viole da gamba		3 trombones	Cafford consector C D	
5% 1621/9	Castello	"Sonate concertate in stilo moderno"	Includes violins				
55-1621	Posch	"Musikalische Tafelfreud"		Instruments not specifie	d		
56 1623	Grandi	"5 <sup>0</sup> Missa e Salomi a 2, 3, e 4 voci, con basso e ripieni."	(	Ripiono implies instrumen	its)	Basso continuo(?)	

57								
1623	Montæverdi	"Gloria a 7"		2 violins 4 viols (or 4 trombones)		(4 trombones)	Basso continuo	0
5 <i>8</i> 1623	Schutz	"Easter Oratorio" ("Historia der Aufers Jesu Christi")	tehung	4 viol da gamba			Organ	
59 1624	Monteverdi	"Combattimento de Tan Clorinda" (Opera)(Ord		Quartet of viols da braccio Contrabass da gamba			Harpsichord	
60 1625	F. Caccini	"La Liberazione" (Opera)		3 violins basses 5 viols lutes	3 flutes	4 trombones	Portative orga Keyboard inst	
1625	Peuerl	Instrumental dances			. Instruments not	specified		
62 1625	Schutz	"Cantiones Sacrae"			. Instruments not	specified	Basso continuo	
63 1625	Schutz	"Symphoniae Sacrae" (or "Deutsche Concerte	en)	3-part strings			Organ	
1626/7/9	Castello	"Capo di compagnia di instrumenti da fiato"			•••••••	nd instruments!		
45 1626	Mazzocchi	"La Catena d'Adone"			. Instruments not a	specified	. Basso continuo	
1627	Farina	"Cappricio stravagante	en	4 strings				Conega Conection
67 1628	Benevoli	"Mass in 53 Parts"	Choir I:	2 violins 4 violas	2 oboes 4 flutes	2 trumpets		60 197
			Choir II:			8 trumpets	Organ	4 kettle- drums
1								
				tcellos double basses	bassoons	2 cornetts 3 trombones	Organ Clavicembali	
	*		Other:	bass lute lutes harps				

<i>C8</i> c.1628	Bollius	"John the Baptist"	2 violins viola bastardo bass	l bassoon 3 flutes	2 cornetti	organ
69						-
1629	Schutz	"Fili mi, Absalon" ("Sacred Symphonics I")			4 trombones	
70 1630	The sum out	methoda an anna mart				
1030	Pierson	"Mottects, or grave Chamber Musique "		"Fit for voyces and vial	LS"	organ (or virginals,
						baselute, [5.6] bandora, or Irish harpe.
71 1631	Strauss	"Requiem"	Strings			
(pub.)	Strauss	"r.equit.an"	Strings			Organ
7,2 1634	Landi	"Il San Alessio"	3 violins Harps Lutes Theorbos Bass viols	Oboes		Gravicembali
0.2			Lyra Violini (large violins) Celli			
? <u>3</u> 1637	M.A. Rossi	"Erminia sul Giordano"	4 treble violins Violone			Basso continuo ("per tutti gli stromenti")
14						/
74 1638 35	Albert	"Arien"	2 violins 2 violas Violone	Bassoons.	3 trombones	Continuo
1638	Monteverdi	"Altri canti d'amor"	2 violini 2 violas Gamba Contrabasso			Basso continuo
6						
1639(?)	Merula	Canzona	3 strings			Organ
7 1641	Manhamandd	#01 amia a 7#	0 mialina		di damanta mana	Diesy
1.041	Monteverdi	"Gloria a 7" (From "Selva")	2 violins 4 viole da brazzio (or 4 trombones)		(4 trombones)	Basso continuo

78 1641	Monteverdi	"Il ritorno di Ulisse in patria"	l (or 2) theorbos bass viols other viols (?)		cornetts trumpets trombones	harpsichord
79 1641	Monteverdi	"Magnificat" (From "Selva")	2 violins 4 violas (or trombones) 2 viols	2 "fiffari" (i.e. shawms) 2 flutes	3 cornetts (4 trombones)	Organ
80 1642	Hammerschmidt	"Musikalische Andachten"	2 violins Violon			Organ
81 1642	Monteverdi	"Poppea"	Strings (?)			Basso continuo
82 1642	L. Rossi	"Il Palazzo Incantato"	2 violins 5-part viols			
83 1643	Kindermann	"Gestlichte Concert"	Strings	Fagott (flauto)	Trombones Cornetto Trombone grosso	Basso continuo
84 1643	Selle	"Johannes Passion; für Solo- stimme . Chor und Instrumente"	•••••	Instruments not spec	ified	
85° 1643	Anonymous	"Philothea" (Oratorio)	4 violins 3 viols theorbo	3 oboes	3 trombones	organ
1644	Cavalli	"Ormindo" (Opera)	2 viols 2 violas			Cembalo Basso continuo
87 1644	Neri	"Sonata et conzone"		Instruments not spec	ified	••••••••••••••••••••••••••••••••••••••
88 1644	Staden	"Seelewig"	3 violins Theorbo (bass)	3 recorders 3 schawms	"Thick horn"	
89 1645	Hammerschmidt	"Dialogi oder Gespräche einer Gläubigen Seele mit Gott"	2 violins Bassus		Trombone	Basso continuo
90 1647	Schütz	"Sacred Symphonies" II	2 violins Bass			Basso continuo
9/ 1649	Cavalli	"Giasone"	Strings (?)			Cembalo

	00					
	92 1651	Neri	"2° Sonate a 3-12 stromenti"	Violins Violas Bass Va da brazzo Violetti Theorbo	Fagotto	Cornetti. Tromboni.
-	93 1651	Neri.	"Sonate da sonarsi con varj strom. a 3 sino a 12" (Op.2)	Violas Violins Bass Va da brazzo Violetta Theorbo	Flauti. Fagotto	Cornetti. Tromboni
	94 1655/6	Hammerschmidt	"Musicalische Gespräche uber die Sonntags - und Fest - Evangelia"		. 4 - 7 voices and instru	ments
	95 1657	Ahles	"Jubilus S. Bernardi: Jesu dulcis memoria"	3 violins Violone		Basso continuo
	96 1657	Ahles	"Magnificat"	(violino) (2 violas) (violone)		Cornetto (or violino) Basso continuo 2 trombones (or 2 violas) Trombone (or violone)
	97 1657	Lully	"Le Ballet de L'Amour Malade"	Violons	Flûtes Hautbois Bassoons	Restantion
	98 1658	Mhles	"Furchtet euch nicht"	(Viola)	Bassoon (or trombone) 3 bassoons	Trombone (or viola) Basso continuo (trombone)
	99 1658	Ahles	"Ich habs" gewagt"	2 violins Viola	4 flutes	Basso continuo
1	1658	Hainlein Iully	"Hodie Christus Natus Est" "Ballet D'Alcidiane"	Violon Violone 5-part strings		Basso continuo
	102	Lully	"Xernès" (Ballet)	Violons (Trompette marine?)	Fagotins	(Trompette marine?) 3 Timbani.

100							
103 1660	Weckmann	"Wennder Herr die Gefangenen zu Zion" (Cantata)	2 violen			Organ	
104 1662	Hammerschmidt	"Kirchen and Tafel-Musik Claring 3 Vocal und 4, 5, 6 Instrumental enthalten"			Brass (?) (Cornetti (?)		
105 1663	Cesti	"La Dorl"		Scored once for 3-part oro Scored again for 5-part or	hestra		••••
before 1664	Carissimi	"Jonas"	2 violins Basso o fagotto	(fagotto)		Basso continuo	
1664	Lully	"Miserere" "Princesse DIELide"	(Strings)	Full Orchestra	"Trompes de Chasse" (hunting horns?)		Kettledroms
108 1664	Schütz	"Seven Last Words"		.Instruments not specified.			
109 1664	Neri	"3Sonaten; 1 canz.; 2 Corrente"		.Instruments not specified.			
1001664	Schutz	"Christmas Oratorio"	Violins 2 violas	Flutes Bassoon	Trumpets Trombones	Basso continuo	
11665	Ahles	"Zwingt die Saiten in Cithara"	2 violini		4 trombones	Basso continuo	
1666/7	Buxtehude	"Ecce nunc benedicte Domino"	2 violini			Organ	
<i>11.3</i> 1667	Cesti	"Il Pomo D'Oro"	6 violins 4 alto viols 4 tenor viols 4 bass viols Double bass viol Lutes Archlutes Theorbos	2 flutes Bassoon	2 trumpets 2 cornetts 3 trombones	Gravicembalo (or gravi- organo) "Regate" "Spinettina" "Spinettone"	Contests Contestori CC CC CC CC CC CC CC CC CC CC CC CC CC
114 1669	Bernhard	"Ich Sahe an Alles Thun"	2 violini 2 violas Violone			Organ	(1928) Salastin Salastin

115							
1669	Cesti	"L'Argia" (Opera)	2 viols Bass			Cembalo	
1669	Schmelzer	"Ballettmisik"	2 violini. Viola			Basso continuo	
117 1670	Buxtehude	"Missa Brevis"		Instruments not spec	ified		
118 1670	Pezel	"Hora Decima"			2 cornetts 3 trombones		
119 1670	Pezel	"Turmsonate"			2 cornetts 3 trombones		
120 1670	Rosenmiller	Suite for Stringed Instruments	2 violas 2 violins Bass viola				
12/ 1671	Cambert	"Pomone" (Opera)	Dessus de Violon Haut-Contre de Violon Taille de Violon Basse de Violon				
1671	Legrenzi	"La Buscha" (Sonata)	2 violino (Violon) Viola da brazzo	Fagotto (ò violon)	2 cornetti (or viol)	Continuo	
/23 1671	Provenzale	"Il schiano di sua moglie"	3-part strings?				
124 1672	Buxtehude	"Wedding Cantata"		Bassoon	Brass (muted)	Continuo	ogetica
1.25 1672	Sartorio	"L*Adelaide"	2 violins 2 violas		trombe	Cembalo	Consections
126 1672	Schnelzer	"Sonata con arie"	2 violini 2 violas Violone		3 trombe	Organo	Timpano
127 1672	Sebastiani	"Passion"	2 violins 3 violes da gamba (ò da brazz Viola basso	io)		Basso continuo	Gilrealh p.165
128 1673	Lully	"Gadmus"	Violons	Flûtes	Trumpets		Timbales (kettle- drums)

129							
1673	Theile	"Passion Domine nostri Jesu Christi sec. Matthaeum"	2 violas da gamba 2 violas da braccio			Basso continuo	
130 1674(?)	Buxtehude	"Ihr Lieben Christen" (Cantata)	3 violins 2 violas Contrabass	Bassoon	3 cornets 3 trombones 2 trumpets	Organ	
1674	Draghi	"La Laterna di Diogene"	2 violins 2 violas			Cembalo	
/32 1674	Lully	"Alceste"	strings	Flutes Obces	Trumpets		2 kettle- drums
133 1675	Locke	"Psyche"	Violins	Wind inst	ruments.		Kettledrums
134 1675	Lully	"Thésée"	5-part strings	Hautbois Flutes d'Allemagne	Trumpets	Basso continuo	
1.35 1675	Pallavicino	"Il Diocletiano" (Opera)	2 viols		Tromba (trumpet)	Basso continuo	
136 1676	Stradella	"Oratorio di S. Giov. Battista"	2 violins Violoncello	sino"			
			2 violins Tenor Base [510] } "del concert	o grosso"			-
137 1677(?)							
1677(?)	Buxtehude	"Frohlocket mit Händen"	Violins Violone		2 clarini	Basso continuo	Rollsollog
138 1677	Legrenzi	"Totila"	2 violins 2 violas			Basso continuo	
139 1677	Lully	"Isis" (March)	Violins	Musettes Oboes			BEBCEI Stig Distriction
140							
1678	Purcell	"Timon of Athens"	2 violins Viola	2 flutes 2 oboes	trumpet	Basso continuo	P.164
			Bass				

							165
141 1679	Kaiser Leopold	I "Die Erlösung des menschlichen Geschlechts"					
142 1680		Geschiechts"	2 violas			Organ	
	Corelli	"Concerti grossi"	2 violins *cello (Plus string orchestra)				
/4 <u>3</u> 1680	Freschi	"Berenice"		6 flutes	40 cornets 6 trumpets 6 sackbutts		6 drums
144				Turkish and other ins	struments.		
1680	Purcell	"Welcome, viceregent of the mighty King"	Strings (?)			Basso continuo	
145- 1681	U Dech						
	H. Bach	"Ich Danke dir, Gott" (Cantata)	2 violins alto viola tenor viola			Organ	
14681	Lully	"Le Triomphe de l'amour"		Flute quartet: Tailles ou Flutes d'Al Quinte de Flutes		Basso continuo	
149				Petits basse de Flutes Grande basse de Flutes			
149 1681	Purcell	"Swifter Isis, swifter flow"	Strings	Flutes Obces		Basso continuo	
148	Steffani	"Marco Aurelio" (Opera)		Instruments not speci	fied		
149 1681 150	Stradella	"Susanna" (Oratorio)	2 viols			Basso continuo	
1682	Lully	"Persée"	Violine Diskviola (descant?) Alt viola Tenor viola Basse			Basso continuo	
151 1682	Purcell	mile Deve and a second					828/23
1002	Furcerr	"Hark Damon, Hark" (Secular cantata)	2 violins Cello	2 flutes		Harpsichord Basso continuo	

152						
1682	Purcell	"The Summer's absence unconcerned we bear"	d Strings			Basso continuo
153 1682	Purcell	"What, what shall be done in Behalf of the Man?"	Strings	Flutes		Basso continuo
154 1683	Buxtehude	"Benedicam Dominum"	2 violons Bass viol	(Obce) Bombarde	4 trompettes 2 clarini (oboe or cornetti) Cornetti 5 trombones	Basso continuo
155						Basso continuo
1683	Purcell	"Fly, bold rebellion"	Strings			
/ <i>3</i> 2 1683	Purcell	"From Hardy Climes" (Ode)	2 violins Viola Violoncello			Harpsichord
1683	Purcell	"Laudate Cecilian" (Ode)	Violins			Basso continuo
158 1683	Purcell	"Welcome to all the Pleasures" (Ode)	Strings			Basso continuo
159 1684	Kerll	"Missa pro defunctis"	3 violas Basso viola o fagotto	(Fagotto)		Harpsichord
160 1684	Lully	"Amadis" (Chaconne)	5-part string orchestra	Wind instruments	s implied	Timpani
16/ 1684	Purcell	"From those serene and rap- turous joys"	Strings	Flutes		Basso continuo
162 1685(?)	Buxtehude	"Jesu Meine Freude"	2 violins Contrabass	Bassoon		Matta Matta
<sup>163</sup> c.1685	Blow	"Venus and Adonis"	2 violins Viola Violoncello	2 flutes		Harpsichord
164 1685	Krieger	"Magnificat"	2 violini 3 violas	Fagotto	2 clarini	Continuo Tympana

165					
1685	Lully	"Roland"	2 violes 2 violas Basse	Oboes	Basso continuo
1685	Pezel.	"Intrada, Sarabande, Bal"		2 cornetts 3 trombones	
1685	Purcell	"My Heart is Inditing" (Anthem)	2 violins Viola		
1685	Purcell	"Why, Why are all the Muses Mute"	Strings		Basso continuo
169 1685	Steffani	"Servio Tullio" (Opera)		. Instruments not specified	
170 1686	Krieger	"Die Gerechten werden wegger- afft"	Violini Violetta 2 violdigambas Violoncello	Fagotto	Organ Cembalo
17/ 1686	Lully	"Acis et Galatée"	5-part strings	Flutes	
172 1686	Lully	"Armide"	Strings		
17.3 1686	Purcell	"Ye Tuneful Muses"	Strings	Flutes	Basso continuo
/74 1687	Krieger	"Liebster Jesu, willst du Scheiden"	2 violini 2 violas Violone		Organ
175 1687	Pallavicine	"Gerusalemme Liberata"	2 violini 2 violetti Viola da collo Basso		Continuo amorbano 3.0 7.77 4
176 1687	Purcell	"Sound the Trumpet"	Strings		Organ 02/8281
/ <i>77</i> 1687	Steffani.	"Alaria"	2 violini (orfl and 1 piff.) Viola	("Piff.") 3 tromba Fagotto Oboe Flauti	Klavierauszug 2 timpani Cembalo

178							
1688	Lully	"Proserpine" (trio)	Strings	2 Oboes Bassoon			
179 1688/9	Purcell	"Dido and Aeneas" (Opera)	2 violins Viola Bass			Basso continuo	
<i>180</i> 1688	Steffani	"Niobe" (Opera)	Violini. Violes Theorbo	Piffari Flutes Fagotto	4 tromba		2 timpani.
181 1689	G.C.Bach	"Siehe, wie fein" (Cantata)	Vièlino 3 viola da Gemba Violone			Organ	
<i>182</i> 1689	Purcell	"Celestial Music" (Ode)	2 violins Viola Violoncello			Harpsichord	
183 1689	Purcell	"Now does the glorious day appear"	Strings			Basso continuo	
<i>184</i> 1689	Purcell	"Yorkshire Feast Song"	2 violins Viola Bass	2 flutes 2 oboes	2 trumpets	Basso continuo	
185 1689	Schwemmer	"Victoria, plaudite coelites" (Cantata)		Fagotto	2 clarini 2 cornetti 2 tromboni	Organ	
186 1689	Steffant	"Alcide"		Instruments no	t specified		
181 1689	Steffani.	"Henrico Leone" (Opera)	Strings?	Hautbois Bassoon			Coltradi Coltrection C. C
188 1690	Purcell	"Arise, my Muse"	Strings	Flutes Oboes	Trumpets	Basso continuo	
189 1690	Purcell	"High on a throne of Glittering	Ore"			Basso continuo	pt.2.59
1690	Purcell	"Of Old when Heroes"	Strings	Flutes Oboes	Trumpets	Basso continuo	Gilrealto
191 1690	Ascarlatti	"La Rosaura"	2 violins Viola Basses	Hautboys Flutes	Trumpets?		

192 1690	Steffani	"La superbia d'Allessandro"		Instruments not spe	cified	
192 1691	Purcell	"Dioclesian"	2 violins Viola Cello Basso	2 flutes 2 hautboys Tenor hautboy Bassoon	2 trumpets	Basso continuo
- 194 1691	Purcell	"King Arthur"		• • • • .Instruments not spe	cified	
195 1691	Purcell	"Welcome, welcome glorious morn"	Strings	Oboes	Trumpets	Basso continuo
1691	Steffani	"Il Zelo di Leonato"		• • • • .Instruments not spe	cified	• • • • • • • • • • • • • • • •
197 1691	Steffani	"Orlando generoso" (Opera)	Strings?	2 oboes Bassoon		
198 1692	Purcell	"Love"s goddess sure was blind"	Strings	Flutes		Basso continuo
199 1692	Purcell	"St. Celias Day Ode"	2 violins Viola	2 treble flutes 1 bass flute 2 oboes	Trumpets	Basso continuo Drums
200 1692	Steffani	"Atlanta" (Opera)	Violino Other strings?	Oboe		
201 1692	Torelli	Sinfonia	2 violins Viola Violoncello Bass	2 oboes	2 trumpets	Organ
202 1693	Charpentier	"Médée"	2 violins Viola	Flutes d'Allemagnes	2 trumpets	Basso continuo Timpani
203 1693	Purcell.	"Celebrate this festival"	Strings	Flutes Oboes	Trumpets	Basso continuo
204 1693	Steffani	"La Libertà contenta" (Opera)	Strings?	Flute Oboe Bassoon		
						11 18 2 11

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169

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205							
1694	Purcell	"Come ye sons of art away"	Strings	Flutes Oboes	Trumpets	Basso Continuo	Timpani
206 1694	Purcell	"Great Parent, Hail" (Ode)	2 violins Viola Violoncello	2 flutes (e.recorders)		Harpsichord (or organ)	
207 1694	Purcell	"Te Deum and Jubilate in D"	Strings		Trumpets	Organ	
208 1695	Fischer	"Le Journal du Printemps"	Strings		2 Trumpets	Organ	
209 c.1695?	Purcell	"Raise, raise the voice"	Violins			Basso continuo	
2/0 1695	Purcell	"Thou Knowst, Lord, the secrets of our hearts" (Verse anthem)			Trombones	Organ	
2// 1695	Purcell	"Who can from joy refrain?"	Strings	Oboes	Trumpets	Basso continuo	
2/2 1695	Steffani	"I Trionfi del Fato" (Opera)		• • Instruments not spec	ified		
2/3 1695	Wecker	"Herr Jesu, zeuch mich dir nach"	2 violini (or hautbois) 2 viola da braccio Violone	(Hauthois)		Organ	
2/4 1695	Wecker	"Ich weiss, dass mein Erlöser lebet"	2 violini 2 viola da braccio Violone			Organ	
2/5 1696	Pez	"Trajano, Imperator Romano" (Opera)	2 violini Viola	2 flutes		Basso continuo	
2/4 1696	Reiche	Sonata # 19			l cornett 3 trombones		Dullage Collectory
2/7 1696	Steffani	"Briseide"	violino other strings?	flute 2 oboes			CS HTTH
218 1697	Buxtehude	*Composition* (?) (for con- secration of altar)			Trumpets		Kettledrums

-3

170

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219								
1697	Ascarlatti	"Prigionier fortunato"	Violins Viola ©Cello Double bass		Flutes	Trumpets		
220				-				
1698	Fischer	"Zodiaci"	Violino Violetta Viola Violone				Cembalo	
22/ 1698	Westerner					1		
	Krieger	"Preise, Jerusalem, den Herren"	2 violini 2 violas		Fagotto	2 "trombettas" 2 cornettinos 3 trombones	Basso continuo	Timpani
222 1699?	Biber	"Requiem"	Violins		Fagotto	3 trombones	Organ	
10//1		readorout	3 violas Violone		ragouto	) of ontoories	organ	
223								
1709 (pub.)	Torelli	"Concerti grossi"	2 violins String orchestra					

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Cembalo

Organ

Basso continuo Timpani

171

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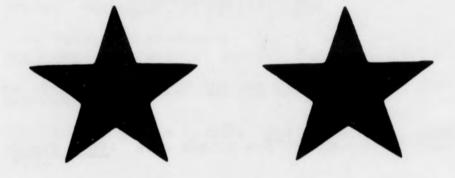
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# CORRECTION



## PRECEDING IMAGE HAS BEEN REFILMED TO ASSURE LEGIBILITY OR TO CORRECT A POSSIBLE ERROR

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